



AGENDA
REGULAR MEETING OF THE
WINDSOR HEIGHTS CITY COUNCIL
Monday, December 16, 2024 - 6:00 PM
WINDSOR HEIGHTS COUNCIL CHAMBERS - 1133 66th ST
ZOOM: <https://us02web.zoom.us/j/7832856334>
Meeting ID: 783 285 6334

Notice to the Public: If you would like the supporting documents and information, please call City Hall by noon the day of the meeting. Copies of City Council Agendas are free to the public. In consideration of all, if you have a cell phone, please turn it off or put it on silent ring. The use of obscene and vulgar language, hate speech, racial slurs, slanderous comments, and any other disruptive behavior during the Council meeting will not be tolerated and the offender may be barred by the presiding officer from further comment before the Council during the meeting and/or removed from the meeting.

1. **Call to Order/Roll Call/Pledge of Allegiance**
2. **Approval of the Agenda**
3. **Public Forum:** This is time set aside for comments from the public on topics of City business other than those listed on the agenda. No action may be taken. Please come to the podium, state your name and address for the record and keep your comments to no more than 5 minutes.
4. **Consent Agenda:** Any item on the Consent Agenda may be removed for separate consideration.
 - A. Approve Minutes of the Regular Council Meeting on November 18, 2024
 - B. Approve Financial Reports
 - C. Approve Liquor License - Centerfield Sports Bar - 6555 University Ave
 - D. Approve 73rd Street Phase 1 STP-U-8477(615)—70-77 Pay Request 7
 - E. Approve Acceptance of Payments To Complete Plat Of Surveys and Property Transfers Along North Walnut Creek
 - F. Approve FY24 Annual Finance Report
 - G. Approve Resolution No. 2024-69 - A Resolution Approving Balance Transfers for the City of Windsor Heights, IA
 - H. Approve Tobacco License - Casey's #4372 - 6961 UNIVERSITY AVE
 - I. Approve Resolution No. 224-70 - A Resolution to Appoint a Member and Alternate Member to the

The agenda was posted on the official bulletin boards, posted to www.windsorheights.org, and city social media platforms in compliance with the requirements of city ordinances and the open meetings law. Scan the QR Code to visit our online Agenda Center. Select the meeting date and view the agenda packet including supporting documents and staff reports.



Polk County 911 Service Board

- J. Approve Resolution No. 2024-71 - A Resolution to Appoint Members and Alternate Members to the Polk County Emergency Management Commission
- K. Approve Resolution No. 2024-71 - A Resolution Appointing Commissioner And Alternate Commissioner To The Des Moines Area Regional Transit Authority (“Dart”) For 2025
- L. Approve Resolution No. 2024-73 - A Resolution Appointing Regular And Alternate Member Representatives To The Metropolitan Planning Organization (MPO) For 2025
- M. Approve Resolution No. 2024-74 - A Resolution Approving Metro Waste Authority Primary Board And Alternate Board Appointments
- N. Approve Resolution No. 2024-75 - A Resolution Approving Committee Appointments
- O. Approve 2025 Fee Schedule
- P. Approve Salt Shed Improvements Project Pay App #2
- Q. Approve Acceptance of Salt Shed Improvement Project Certificate of Completion

5. **Action Items:**

- A. Discuss Proposed YMCA Summer Camp at Colby Park
- B. Consideration of Resolution No. 2024-76 - A Resolution To Provide For A Notice Of Public Hearing On The Proposed Plans, Specifications, Form Of Contract, And Estimated Total Cost For The 68th Street South Reconstruction Project And For The Taking Of Bids On Said Project
- C. Consideration of 63rd Street Barrier
- D. Consideration of Colby Park Food Truck Plaza Seating
- E. Consideration of the 2025 Special Events Calendar
- F. Discuss 2025 City Council Goals

6. **Reports:**

- A. Mayor, Council Reports and Committee Updates, and Administration Reports
 - i Mayor's Report
- B. Quarterly Police Department Report

7. **Closed Session** Per Iowa Code §21.5.1 (j): To discuss the purchase of particular real estate only where premature disclosure could be reasonably expected to increase the price the governmental

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body would have to pay for that property. The minutes and the tape recording of a session closed under this paragraph shall be available for public examination when the transaction discussed is completed.

8. **Adjourn**

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City of Windsor Heights Regular Business Meeting Minutes
Monday, November 18, 2024 - 6:00 PM
WINDSOR HEIGHTS COUNCIL CHAMBERS - 1133 66th ST

1. **Call to Order/Roll Call/Pledge of Allegiance**

Mayor Mike Jones called the meeting to order at 6:00 PM. Members present: Susan Skeries, Michael Libbie, Lauren Campbell, Joseph Jones, and Threase Harms Staff present: City Administrator Adam Plagge, City Attorney Erin Clanton, City Clerk Adam Strait, Finance Director Rachelle Swisher, Police Chief Pete Roth, Fire Chief Jim Mease, Public Works Director Andy Larson, City Engineer Justin Ernst and Planner Nate Weitz with Bolton & Menk.

2. **Approval of the Agenda**

Motion by Threase Harms to APPROVE. Seconded by Susan Skeries. Motion passed 5-0.

3. **Public Forum:** This is time set aside for comments from the public on topics of City business other than those listed on the agenda. No action may be taken. Please come to the podium, state your name and address for the record and keep your comments to no more than 5 minutes.

Fletcher Berry - 1770 92nd Street West Des Moines - Provided a Chamber of Commerce update which included announcing new members and highlighting upcoming events, including a new Wake Up in Windsor Heights networking event for and by Windsor Heights businesses.

Bob Bishop - 1128 64th Street - Spoke about concerns of tree damage at Colby Park due to deer.

4. **Consent Agenda:** Any item on the Consent Agenda may be removed for separate consideration.

Motion by Threase Harms to APPROVE Consent Agenda and pull Item H for discussion. Seconded by Michael Libbie. Motion passed 5-0.

A. Approve Minutes of the Regular Council Meeting on November 4, 2024

B. Approve Financial Reports

C. Approve Liquor License - CASEY'S #4372 - 6961 University Avenue

D. Approve 73rd Street Phase 1 STP-U-8477(615)—70-77 Pay Request 6

E. Approve the Urban Renewal Report

F. Approve Colby Interests Annual Appropriation Payment For ALDI Project

G. Approve No Parking Signage on Wilshire Blvd at 74th and 75th

I. Approve Salt Shed Improvements Project Pay App 1

J. Approve Resolution No. 2024-68 - A Resolution Authorizing Adoption of Policies and Procedures Regarding Municipal Securities Disclosure

K. Approve Street Finance Report

L. Approve TIF Debt Certification Report

5. **Action Items:**

th ml2nd

aj presented item. ml voiced support econ

- H. Approve Re-Submission of the MidAmerican ICON Water Access Grant
Susan Skeries expressed concerns about submitting the grant application to fund a water trail access point, citing concerns about water levels being too low, public safety, and appropriate use of funds. Discussion centered on these talking points. A decision was needed tonight due to the grant submission deadline. Motion by Threase Harms to APPROVE. Seconded by Joseph Jones. Roll call vote: Aye - Michael Libbie, Joseph Jones, Lauren Campbell, Threase Harms, Nay - Susan Skeries. Motion Passed 4-1.
- A. Consideration of Resolution No. 2024-67 - A Resolution Approving Charitable Donation Agreement of Real Estate
Adam Plagge presented the item. The land was donated by Immanuel Pathways and is 0.56 acres of land between the existing trail and Sherwood Forest. The property is currently in the process of being restored to prairie and native woods by the City and acceptance of this property donation will enable the City to maintain it in this state with a trail going forward. Discussion centered on the trail being a positive improvement for residents and businesses. Motion by Threase Harms to APPROVE. Seconded by Michael Libbie. Motion passed 5-0.
- B. Consideration of 1110 68th St. Entry, Hold Harmless and Temporary Easement Agreement
Adam Plagge presented the item. Motion by Threase Harms to APPROVE. Seconded by Michael Libbie. Motion passed 5-0.
- C. Discussion of Colby Park Table and Bench Options
Discussed Colby Park table and bench options. Nate Weitz from Bolton and Menk, the City's engineering firm, presented 3 design options that used a mixture of a handicap accessible picnic tables and jessie rails, which are a stand-up counter style railing. Discussion centered on ensuring accessibility, avoiding areas of congestion, and maximizing seating areas. Staff will bring back a new design based on the feedback gathered at a future meeting.
- D. Discussion of 68th Street Reconstruction Sidewalk Accessibility
Discussed 68th Street Reconstruction and Sidewalk Accessibility. Discussion focused on whether to proceed with utilizing rubber matting to ensure residents with scooters and other mobility issues could safely travel along designated paths during construction. Council also discussed plans for designating ADA parking spots. Additionally, discussion took place on the projects alternative of reconstruction of Mott Ave between 68th and 69th Street. City staff recommended to construct sidewalk north of Mott which includes the removal of trees and relocating a resident's fence due to the impact of construction on the resident. Council was in favor of utilizing the rubber matting for a walkway and proceeding with

the staff recommendation of the north sidewalk on Mott Ave.

E. Consideration of 2025 City Council Meeting Schedule

Adam Strait presented the item. Discussion centered on a January meeting alternate date. Motion by Threase Harms to APPROVE 2025 City Council Meeting Schedule amending the January 21 meeting to January 14 and correcting Tuesday, October 6 to 7. Seconded by Susan Skeries. Motion passed 5-0.

6. **Reports:**

A. Mayor, Council Reports and Committee Updates, and Administration Reports

Threase Harms - Windsor Wonderland volunteer link are online. Take time to please share them on your social channels. Join in on December 5th from 10am to 5pm to decorate.

Lauren Campbell - DART committee meeting on November 5th and expressed the City's continued support. Veterans Day Lunch was success. Hats off to Susan for putting it together and dealing with a last minute caterer change. Thanks to City staff for attending and their service.

Michael Libbie - Thank you to Adam Plagge for meeting this morning. Thanks to Public Works for putting up snowflake lights along University. Hosting a Coffee with Council on the 23rd at Grounds for Celebration. Will be attending the Urbandale City Council to support the Sikh temple. Veterans Day was a great event. Captain Kelly was a great addition.

Joseph Jones - No report

Susan Skeries - Veterans Day went well. We had 32 veterans in attendance and about 90 to 100 people there. The Young Patriots did an amazing job performing for the veterans. The Boy Scouts were rock stars. Very impressed with how quickly they cleaned up after the event. A huge thank you to all the volunteer who made it a success and to Urban Grill for catering the event. On Thursday, attend the Mid Iowa Health Foundation's 40th Anniversary and heard Joseph speak. Was also able to speak with board members and the foundation's impact on the community. On Friday, there was a Special Events committee meeting where we finalized the dates for 2025 events and discussed summer events with The Y and library. The City is collecting holiday lights that are no longer working or wanted and there will also be a box at Windsor Wonderland. This helps prevent damage of the sorting machine at Metro Waste Authority's Grimes facility. They are always looking for way to fix and reuse the lights. Attending the Chamber Connector lunch tomorrow and will be taking volunteer sign up sheets for Windsor Wonderland. The TRC sponsorship will be sent out to businesses that sponsored events last year between December 1 and 30. The Chamber is using a new platform. Will be updating sponsorship and adding in new ones if anyone has thoughts on things to change, let me know. Wish everyone a Happy Thanksgiving. Hope you all enjoy the holidays with your loved ones. Adam Plagge - Fall rain is delaying 73rd Street reconstruction. Will bring alternatives to the next meeting if crews are unable to secure a way to have the road open before winter.

Jim Mease - In late October, we met with representatives from Clive and Urbandale to discuss updates and highlight changes that have occurred over the past 18 months since our last meeting. The discussion covered

several key points, including updates to the staffing model and the POC program. While the POC program demonstrated its viability, it is not considered a long-term solution. We noted gains in experienced part-time staff, though most of these personnel are now part of other metro teams. There was also discussion regarding the leadership viability of a long-term position (LT) and a review of our response capabilities. One highlight was the increase in paramedic coverage from 93% to 99%, which was well-received. Additionally, the apparatus replacement program was discussed and viewed positively, showcasing our ability to participate in a shared resource program. We reported that 6% of our time is dedicated to calls, while 94% is available to assist partners. Clive and Urbandale expressed their expectations moving forward. Specifically, the Urbandale Fire Chief emphasized that if three personnel are not available, they do not want an engine dispatched with only two people. While Urbandale indicated they can supply an ambulance but not an engine, Clive stated they are currently okay but may face challenges in the future. Both parties expressed interest in ensuring three personnel are available at all times and discussed how this might be achieved, particularly given the context of shared services. Looking ahead, AJ will focus on space utilization and ensuring a mutual understanding with our partners regarding staffing. We also discussed OSHA's potential preference for three-person engine staffing. While these measures may or may not materialize, it is important to note that the NFPA recommends a minimum of three personnel, though ideally four. However, their standards are recommendations, not mandates, and no organization fully meets all their standards. We will continue to monitor any developments from OSHA related to this issue.

i Mayor's Report

ii 2025 Special Event Dates

7. Adjourn

Motion by Threase Harms to adjourn at 7:26PM. Seconded by Susan Skeries. Motion passed 5-0.

Mike Jones, Mayor

Attest: Adam Strait, City Clerk



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL
FROM: Rachelle Swisher, Finance Director
SUBJECT: Approve Financial Reports

GENERAL INFORMATION

ATTACHMENTS

1. Claims Report 11.14-11.22
2. Vendor Activity Report 11.14.22
3. CLAIMS REPORT 11.23-12.11
4. BUDGET REPORT
5. REVENUE REPORT
6. BALANCE SHEET

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK CHECK# DATE
ABSOLUTE CONCRETE CONSTRUCTION	73RD ST PHASE 1 PAY REQUEST #6		285,651.08	57678 11/21/24
AGSOURCE	COLBY PARK TESTING SERVICES		40.00	57679 11/21/24
AIRGAS	MEDICAL SUPPLIES		7.44	57680 11/21/24
ALADTEC	ONLINE TRAINING PLATFORM		3,498.53	57681 11/21/24
AMAZON CAPITAL SERVICES	WEDGE ANCHORS		764.90	57682 11/21/24
ANIMAL RESCUE LEAGUE OF IOWA	OCTOBER SERVICES		375.00	57683 11/21/24
ARNOLD MOTOR SUPPLY	SUPPLIES		34.74	57684 11/21/24
ASSURITY	ASSURITY		724.60	5286 11/22/24
AUREON IT	BILLABLE TIME		1,315.00	57685 11/21/24
BANKERS TRUST COMPANY	CC FEES	27.90		5292 11/21/24
BANKERS TRUST COMPANY	CC FEES	346.54		5293 11/21/24
BANKERS TRUST COMPANY	CC FEES	156.47		5294 11/21/24
BANKERS TRUST COMPANY	See Vendor Activity Report	6,480.89	7,011.80	57688 11/21/24
BEST PORTABLE TOILETS	PARK PORTABLE TOILETS		694.30	57689 11/21/24
BOLTON & MENK	73RD ST ENG		91,408.00	57690 11/21/24
BOOT BARN INC	CLOTHING ALLOWANCE		563.88	57691 11/21/24
BOUND TREE MEDICAL LLC	MEDICAL SUPPLIES		1,626.74	57692 11/21/24
BREESE, TAMMY	NOV CELL PHONE		80.00	57693 11/21/24
BRICK GENTRY PC	OCT LEGAL FEES		7,657.50	57694 11/21/24
BROWN, CODY	FITNESS INCENTIVE		100.00	57695 11/21/24
CHARLES & RUTH COLBY DEV TRUST	12/1/24 7100 UNIV REBATE		40,721.50	57696 11/21/24
CITY OF WEST DES MOINES	METRO HOME IMP CONTRIBUTION		2,242.00	57697 11/21/24
CLIA LABORATORY PROGRAM	CERTIFICATE FEE		248.00	57698 11/21/24
CONSTRUCTION MATERIALS TESTING	FORREST CT PAVEMENT CORES		6,540.00	57699 11/21/24
CORELL RECYCLING	SUPPLIES		438.36	57700 11/21/24
DES MOINES PUBLIC LIBRARY	2ND QTR FY25		16,882.63	57701 11/21/24
DES MOINES REGISTER	NEWSPAPER		91.98	57702 11/21/24
DIAMOND VOGEL, INC	SUPPLIES		15.51	57703 11/21/24
DM BUSINESS SERVICES LLC	TECH SERVICES		592.00	57704 11/21/24
DORSEY & WHITNEY LLP	UR PLAN AMENDMENT		11,846.00	57705 11/21/24
FEDERAL TAX DEPOSIT	FED/FICA TAX		30,257.48	5284 11/22/24
GANNETT IOWA LOCALIQ	PUBLICATIONS		889.10	57706 11/21/24
GOODRICH, WILLIAM	NOV CELL PHONE		80.00	57707 11/21/24
HY-VEE ACCOUNTS RECEIVABLE	SUPPLIES		19.46	57708 11/21/24
ICMA RETIREMENT TRUST	ICMA		804.72	5282 11/22/24
INTERSTATE ALL BATTERY	BATTERY FOR CAR 25		624.29	57709 11/21/24
IOWA DEPT OF PUBLIC SAFETY	IA SYSTEM QTR FEE		325.50	57710 11/21/24
IOWA DIAGNOSTIC IMAGING	PHYSICALS		89.00	57711 11/21/24
DEPT OF HUMAN SERVICES	DEC 24 STATE SHARE GEMT		3,186.71	57712 11/21/24
IOWA LAW ENFORCEMENT ACADEMY	TRAINING		325.00	57713 11/21/24
IOWA LEAGUE OF CITIES	GOVINVEST COMP STUDY		3,500.00	57714 11/21/24
IOWA SOLUTIONS INC	TECH SERVICES		6,980.00	57715 11/21/24
IPERS	PROTECT IPERS		36,466.58	5281 11/22/24
IPRINT TECHNOLOGIES	INK		422.00	57716 11/21/24
IRLBECK, MICHAEL	FITNESS INCENTIVE		330.00	57717 11/21/24
ISOLVED BENEFIT SERVICES	FLEX - BENEFITS	1,714.00		5285 11/22/24
ISOLVED BENEFIT SERVICES	HSA FEES	54.60	1,768.60	5295 11/21/24
ISWEP	MEMBERSHIP FY25		2,130.00	57718 11/21/24
JACKS, DANIEL	FITNESS INCENTIVE		100.00	57719 11/21/24
JC MIDWEST SERVICES LLC	SALT SHED PAY REQUEST #1		115,560.01	57677 11/19/24
JOHN'S TREE SERVICE, INC	GARRISON RD 13 PINES REMOVED		9,100.00	57720 11/21/24
JOHNSON, KYLE	NOV CELL PHONE		80.00	57721 11/21/24
LARSON, ANDY	NOV CELL PHONE		80.00	57722 11/21/24
LEUTHOLD, NATE	NOV CELL PHONE		153.38	57723 11/21/24

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK#	CHECK DATE
LIFEMED SAFETY INC	ANNUAL COT/MONITOR MAINTENANCE		1,339.00	57724	11/21/24
MANHATTANLIFE	MANHATTAN LIFE		254.71	57676	11/22/24
MEASE, JIM	NOV CELL PHONE		80.00	57725	11/21/24
MERCY ONE CLIVE PHARMACY	MEDICAL SUPPLES		388.84	57726	11/21/24
METRONET	INTERNET		182.15	57727	11/21/24
NORRIS, CHAD	FITNESS INCENTIVE		330.00	57728	11/21/24
OPN ARCHITECTS	FACILITY ASSESSMENT		1,817.84	57729	11/21/24
PALMER, MATT	CLOTHING ALLOWANCE		42.39	57730	11/21/24
PLAGGE, ADAM	NOV CELL PHONE		80.00	57731	11/21/24
PORTER LEE CORPORATION	ANNUAL SOFTWARE SUPPORT		965.00	57732	11/21/24
PROFESSIONAL PRODUCTS	CLOTHING BULK ORDER		717.50	57733	11/21/24
QUALITY PEST CONTROL, INC	PEST CONTROL		35.00	57734	11/21/24
ROBERTS, JASON	NOV CELL PHONE		80.00	57735	11/21/24
ROE CONSULTING LLC	IA GEMT COST REPORTING 2024		4,500.00	57736	11/21/24
ROETMAN, JOE	CLOTHING ALLOWANCE		57.02	57737	11/21/24
ROTH, PETE	NOV CELL PHONE		80.00	57738	11/21/24
SAFE BUILDING COMPLIANCE	RENTAL INSPECTIONS		1,340.00	57739	11/21/24
SILENT DISCO DSM	WWONDERLAND SILENT DISCO		500.00	57740	11/21/24
SKERIES, SUSAN	FALL FEST SHIRTS		747.79	57741	11/21/24
STANDARD INSURANCE COMPANY	LIFE/LTD/STD		2,487.15	57742	11/21/24
STEIN, ERIC	FITNESS INCENTIVE		100.00	57743	11/21/24
STRAIT, ADAM	NOV CELL PHONE		80.00	57744	11/21/24
SUNSET LAW ENFORCEMENT	TRAINING		1,492.34	57745	11/21/24
SWISHER, RACHELLE	NOV CELL PHONE		80.00	57746	11/21/24
THE SHREDDER	SUPPLIES		45.00	57747	11/21/24
TREASURER STATE OF IOWA	STATE TAXES		9,126.09	5283	11/22/24
ULINE	SUPPLIES		732.85	57748	11/21/24
UMB BANK	2020B INTEREST PYMT	31,122.00		5287	11/21/24
UMB BANK	2020A INTEREST PYMT	61,620.00		5288	11/21/24
UMB BANK	2016B INTEREST PYMT	12,711.25		5289	11/21/24
UMB BANK	2024A INTEREST	160,597.52		5290	11/21/24
UMB BANK	2016A INTEREST PYMT	6,218.75	272,269.52	5291	11/21/24
UPHDM OCCUPATIONAL MED	PHYSICAL		104.29	57749	11/21/24
WEX FLEET UNIVERSAL	FUEL		2,849.01	57750	11/21/24
WHITE CAP, L.P.	SUPPLIES		614.01	57751	11/21/24
WIELAND, KIM	STORMWATER REIMBURSEMENT PROG		974.82	57752	11/21/24
ZIEGLER INC.	GENERATOR MAINTENANCE		442.68	57753	11/21/24
ZWC CONDOMINIUM ASSOC	PEST CONTROL/IRRIGATION		93.50	57754	11/21/24
Accounts Payable Total			999,471.82		

Payroll Checks

001	GENERAL	68,496.11
110	ROAD USE TAX	10,735.14
670	LANDFILL/GARBAGE	79.47
740	STORM WATER	1,439.07
Total Paid On: 11/22/24		80,749.79
Total Payroll Paid		80,749.79

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK#	CHECK DATE
Report Total			=====		
			1,080,221.61		
			=====		

CLAIMS REPORT
CLAIMS FUND SUMMARY

FUND	NAME	AMOUNT
001	GENERAL	231,880.09
110	ROAD USE TAX	37,612.42
112	EMPLOYEE BENEFITS	2,735.04
145	URBAN RENEWAL	40,721.50
200	DEBT SERVICE	272,269.52
303	COLBY PARK	19,470.30
322	73RD STREET PROJECT	318,465.33
323	68TH ST NORTH	2,667.00
326	68TH ST SOUTH	15,178.00
327	SALT SHED PROJECT	118,148.20
328	74TH ST PROJECT	856.50
330	FORREST CRT MILL/OVERLAY	3,585.00
350	CAPITAL EQUIPMENT FUND	7,572.00
670	LANDFILL/GARBAGE	109.86
740	STORM WATER	8,950.85

	TOTAL FUNDS	1,080,221.61

ACCOUNTS PAYABLE VENDOR ACTIVITY

INVOICE NO	LN	DATE	PO NO	REFERENCE	TRACK		1099	NET	CHECK	PD DATE
					CD	GL ACCOUNT				
58 BANKERS TRUST COMPANY										
11212024 1	1	11/21/24		CC FEES		001-620-6405		27.90	5292	11/21/24 E
11212024 2	1	11/21/24		CC FEES		001-620-6405		346.54	5293	11/21/24 E
11212024 3	1	11/21/24		CC FEES		001-620-6405		156.47	5294	11/21/24 E
11212024 3526	1	11/21/24		STORAGE MART		001-470-6499		31.99	57688	11/21/24
11212024 3526	2	11/21/24		ROYAL RIDES		001-470-6497		142.35	57688	11/21/24
11212024 3526	3	11/21/24		ZOOM		001-610-6507		31.98	57688	11/21/24
11212024 3526	4	11/21/24		ADOBE		001-615-6507		413.91	57688	11/21/24
11212024 3534	1	11/21/24		IIMC MEMBERSHIP		001-620-6210		185.00	57688	11/21/24
11212024 3534	2	11/21/24		BOUNCE HOUSES FALL FEST		001-470-6497		1026.00	57688	11/21/24
11212024 3534	3	11/21/24		FALL FEST SPONSORED POST		001-470-6497		19.97	57688	11/21/24
11212024 3534	4	11/21/24		BACKGROUND CHECK		110-210-6411		39.30	57688	11/21/24
11212024 3534	5	11/21/24		CONSTANT CONTACT		001-620-6373		81.00	57688	11/21/24
11212024 8417	1	11/21/24		ANNUAL MEMBERSHIP DMARCIAN		001-110-6507		239.88	57688	11/21/24
11212024 8425	1	11/21/24		CLOTHING ALLOWANCE		001-150-6180		185.58	57688	11/21/24
11212024 8425	2	11/21/24		NEW RADIO STRAPS AND HOLSTERS		001-150-6373		542.96	57688	11/21/24
11212024 8425	3	11/21/24		PCFCA MEETING		001-150-6599		31.91	57688	11/21/24
11212024 8425	4	11/21/24		PCFCA MEETING		001-150-6599		105.60	57688	11/21/24
11212024 8425	5	11/21/24		LIFE SAVING AWARDS		001-150-6506		230.00	57688	11/21/24
11212024 8425	6	11/21/24		RECRUITMENT POST		001-150-6414		5.00	57688	11/21/24
11212024 8425	7	11/21/24		RECRUITMENT POST		001-150-6414		5.00	57688	11/21/24
11212024 8433	1	11/21/24		MOVIES IN THE PARK ICE		001-470-6496		37.14	57688	11/21/24
11212024 8433	2	11/21/24		MOVIES IN THE PARK ICE		001-470-6496		37.14	57688	11/21/24
11212024 8433	3	11/21/24		CLOTHING ALLOWANCE		110-210-6180		269.99	57688	11/21/24
11212024 8433	4	11/21/24		PLAYGROUND SAFETY COURSE		110-210-6230		1250.00	57688	11/21/24
11212024 8433	5	11/21/24		AERATOR		001-430-6511		254.66	57688	11/21/24
11212024 9969	1	11/21/24		CEC OFFICE SUPPLIES		001-480-6507		157.34	57688	11/21/24
11212024 9969	2	11/21/24		CH OFFICE SUPPLIES		001-620-6506		15.98	57688	11/21/24
11212024 9969	3	11/21/24		WAIVERSIGN		001-620-6506		13.08	57688	11/21/24
11212024 9969	4	11/21/24		TINY TREES		110-299-6490		68.85	57688	11/21/24
11212024 9969	5	11/21/24		AJ TRAINING		001-620-6230		62.62	57688	11/21/24
11212024 9969	6	11/21/24		PRAIRIE BURNING		001-620-6230		58.66	57688	11/21/24
11212024 9969	7	11/21/24		MICROSOFT		001-615-6490		40.00	57688	11/21/24
11212024 9969	8	11/21/24		MICROSOFT		001-615-6490		23.00	57688	11/21/24
11212024 9985	1	11/21/24		TRAINING		001-110-6230		350.00	57688	11/21/24
11212024 9993	1	11/21/24		ANNUAL SUBSCRIPTON IACPNET		001-110-6507		525.00	57688	11/21/24

BANKERS TRUST COMPANY								7011.80		

***** REPORT TOTAL *****								7011.80		

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK CHECK#	CHECK DATE
AIRGAS	MEDICAL SUPPLIES	50.91		57755	12/04/24
AIRGAS	MEDICAL SUPPLIES	7.20	58.11	57808	12/10/24
AMAZON CAPITAL SERVICES	SUPPLIES	170.35		57756	12/04/24
AMAZON CAPITAL SERVICES	WIRELESS MICROPHONE SYSTEM	365.04	535.39	57809	12/10/24
AMERICAN ALARMS	ALARM MONITORING		129.00	57810	12/10/24
AMERICAN FENCE COMPANY	FENCE/GATE INSTALL BALLFIELD		7,635.00	57757	12/04/24
BAKER ELECTRIC INC.	UTILITY LOCATES		3,383.17	57811	12/10/24
BANKERS TRUST COMPANY	CC FEES	132.42		5335	12/10/24
BANKERS TRUST COMPANY	CC FEES	27.90		5336	12/10/24
BANKERS TRUST COMPANY	CC FEES	82.67	242.99	5337	12/10/24
BOLTON & MENK	73RD ST ENG		56,297.78	57758	12/04/24
BOOT BARN INC	CLOTHING ALLOWANCE		518.45	57759	12/04/24
BOUND TREE MEDICAL LLC	MEDICAL SUPPLIES		495.65	57760	12/04/24
BRAVO GREATER DES MOINES INC.	AWARDS GALA CAMPBELL/SKERIES		900.00	57812	12/10/24
BULLZEYE, INC	NOV CITY HALL CLEANINGS	899.00		57761	12/04/24
BULLZEYE, INC	PSB NOV CLEANING	928.00	1,827.00	57813	12/10/24
CAPITAL ONE TRADE CREDIT	TRAILER SPRAYER		299.59	57762	12/04/24
CATCH DES MOINES	NOV 24 HOTEL TAX DISBURSEMENT		320.44	57814	12/10/24
CINTAS	FIRST AID CABINET SUPPLIES		52.66	57763	12/04/24
CLEARFLY	CELL PHONES		179.38	5300	12/04/24
CLIVE POWER EQUIP.	EQUIPMENT		760.00	57764	12/04/24
COLO IMPLEMENT COMPANY	ROTARY CUTTER		2,500.00	57765	12/04/24
CONCRETE POLYFIX	70TH & SUNSET TERRACE REPAIRS		2,240.00	57766	12/04/24
CONCRETE SUPPLY INC.	CONCRETE		5,946.00	57767	12/04/24
CONSTRUCTION MATERIALS TESTING	SALT SHED TESTING		2,227.50	57815	12/10/24
CONTRACTORS RENTAL CO.	LIFT RENTAL		210.00	57768	12/04/24
CRYSTAL CLEAR WATER CO.	WATER		9.99	57769	12/04/24
DAIDA	RADIX SUBSCRIPTION		545.53	5334	12/10/24
DAILY AUCTION COMPANY	SKID BROOM		1,260.00	57807	12/05/24
DELTA DENTAL OF IOWA	DENTAL		3,170.00	5306	12/10/24
DEMCAZAK, MISSY	FINGERPRINT REIMBURSEMENT		64.35	57816	12/10/24
DES MOINES WATER WORKS	6900 SCHOOL ST	50.66		57770	12/04/24
DES MOINES WATER WORKS	1133 66TH ST	65.64	116.30	57817	12/10/24
DIAMOND OIL CO.	FUEL		826.94	57818	12/10/24
DORSEY & WHITNEY LLP	2020B BOND REPURPOSING		1,504.00	57771	12/04/24
EMPLOYEE BENEFIT SYSTEMS	HEALTH INS		19,770.66	5310	12/10/24
EILEENS COOKIES	MOVIES IN THE PARK		202.50	57772	12/04/24
ELECTRICAL ENG.& EQUIPMENT	SUPPLIES		8.51	57773	12/04/24
ELECTRONIC ENG. CO.	SUPPLIES		167.90	57774	12/04/24
EO JOHNSON	COPIER LEASE		369.88	57775	12/04/24
FEDERAL TAX DEPOSIT	FED/FICA TAX	32,078.81		5298	12/04/24
FEDERAL TAX DEPOSIT	EFTPS	2,171.51	34,250.32	5307	12/10/24
FENNER IRRIGATION	IRRIGATION REPAIRS		1,216.00	57776	12/04/24
GRAINGER	EQUIPMENT		112.26	57777	12/04/24
GREENFIELD CONTRACTORS LLC	BUILDING KIT		16,353.18	57819	12/10/24
GRIMES ASPHALT & PAVING	STREET MAINTENANCE SUPPLIES		96.10	57820	12/10/24
HAWKEYE TRUCK EQUIPMENT	REPAIRS	1,515.47		57778	12/04/24
HAWKEYE TRUCK EQUIPMENT	REPAIRS	350.34	1,865.81	57821	12/10/24
HELIX PEST SOLUTIONS LLC	PEST CONTROL	35.00		57779	12/04/24
HELIX PEST SOLUTIONS LLC	CEC PEST CONTROL	30.00	65.00	57822	12/10/24
O'DONNELL ACE HICKMAN	CLOTHING ALLOWANCE		20.37	57823	12/10/24
HOME DEPOT CREDIT SERVICES	HAMMER DRILL		623.62	57780	12/04/24
HOTT OFF THE PRESS	NOV 2024 NEWSLETTER		1,696.89	57824	12/10/24
IA REINDEER RENTAL	REINDEER RENTAL WWONDERLAND		2,000.00	57825	12/10/24

Vendor Checks: 11/23/2024-12/11/2024

Payroll Checks: 11/23/2024-12/11/2024

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK CHECK#	DATE
ICMA RETIREMENT TRUST	ICMA	804.63		5297	12/04/24
ICMA RETIREMENT TRUST	ICMA	1,854.96		5305	12/10/24
ICMA RETIREMENT TRUST	ICMA RETIREMENT	1,889.75	4,549.34	5308	12/10/24
IMWCA	INSTALL 6 WORKERS COMP		5,255.00	57781	12/04/24
INTERSTATE ALL BATTERY	SUPPLIES	31.94		57782	12/04/24
INTERSTATE ALL BATTERY	BATTERY	179.40	211.34	57826	12/10/24
IOWA DES MOINES SUPPLY	SUPPLIES		156.96	57783	12/04/24
IOWA POLICE CHIEFS ASSN.	MEMBERSHIP RENEWAL		125.00	57784	12/04/24
IOWA SOLUTIONS INC	IT SERVICES	3,750.00		57785	12/04/24
IOWA SOLUTIONS INC	MANAGED SERVICES	105.00	3,855.00	57827	12/10/24
IPERS	HEALTH PRETAX	32.50		5296	12/04/24
IPERS	IPERS	52.75	85.25	5303	12/10/24
ISOLVED BENEFIT SERVICES	FLEX - BENEFITS	1,714.00		5299	12/04/24
ISOLVED BENEFIT SERVICES	HRA FEES	50.40	1,764.40	5304	12/10/24
JC MIDWEST SERVICES LLC	ROAD STONE		2,804.69	57786	12/04/24
JENSEN, STAN	CARRIAGE SERVICE WWONDERLAND		850.00	57828	12/10/24
JEO CONSULTING GROUP	CRS PROGRAM ASSISTANCE		1,500.00	57787	12/04/24
LICHTY, PAT	SANTA FOR WWONDERLAND		375.00	57829	12/10/24
LOGAN CONTRACTORS SUPPLY	SUPPLIES		921.37	57830	12/10/24
LOWE'S	ASPHALT		975.88	57831	12/10/24
METRO WASTE AUTHORITY	GARBAGE SERVICE		31,475.80	57788	12/04/24
METRONET	INTERNET		417.81	57789	12/04/24
MIDAMERICAN ENERGY	7116 UNIV AVE	24.60		5311	12/10/24
MIDAMERICAN ENERGY	6800 SCHOOL ST GAS	161.54		5312	12/10/24
MIDAMERICAN ENERGY	6800 SCHOOL ST	148.71		5313	12/10/24
MIDAMERICAN ENERGY	7001 UNIV AVE	25.35		5314	12/10/24
MIDAMERICAN ENERGY	6300 UNIV AVE	25.90		5315	12/10/24
MIDAMERICAN ENERGY	1133 66TH ST	529.38		5316	12/10/24
MIDAMERICAN ENERGY	6900 SCHOOL ST	21.26		5317	12/10/24
MIDAMERICAN ENERGY	6900 SCHOOL ST CEC	572.31		5318	12/10/24
MIDAMERICAN ENERGY	6900 SCHOOL ST STAGE	65.12		5319	12/10/24
MIDAMERICAN ENERGY	1145 66TH ST	201.78		5320	12/10/24
MIDAMERICAN ENERGY	1140 73RD ST	23.43		5321	12/10/24
MIDAMERICAN ENERGY	STREET LIGHTING	3,190.47		5322	12/10/24
MIDAMERICAN ENERGY	1601 73RD ST	14.25		5323	12/10/24
MIDAMERICAN ENERGY	951 73RD ST	19.18		5324	12/10/24
MIDAMERICAN ENERGY	6540 UNIV AVE	148.69		5325	12/10/24
MIDAMERICAN ENERGY	7290 UNIV AVE	26.51		5326	12/10/24
MIDAMERICAN ENERGY	6739 UNIV AVE	113.31		5327	12/10/24
MIDAMERICAN ENERGY	2227 63RD ST	25.49		5328	12/10/24
MIDAMERICAN ENERGY	6440 HICKMAN RD	64.80		5329	12/10/24
MIDAMERICAN ENERGY	1443 73RD ST	10.00		5330	12/10/24
MIDAMERICAN ENERGY	1804 73RD ST	10.00		5331	12/10/24
MIDAMERICAN ENERGY	6410 HICKMAN RD	26.99		5332	12/10/24
MIDAMERICAN ENERGY	801 73RD ST	28.50	5,477.57	5333	12/10/24
MIDWEST COMFORT	GAS VALVE REPLACEMENT		809.58	57832	12/10/24
MOTOROLA SOLUTIONS, INC	APPARATUS RADIO CHARGER		1,261.36	57790	12/04/24
MUERNER, MARK	ALTERATION REIMBURSEMENT		30.00	57833	12/10/24
OMNI BILLING	NOVEMBER RECEIPTS		88.76	57834	12/10/24
OPN ARCHITECTS	FACILITY ASSESSMENT		5,025.00	57791	12/04/24
PALMER, MATT	CLOTHING ALLOWANCE		336.86	57792	12/04/24
PONTIFEX CONSULTING GROUP LLC	COMPENSATION STUDY		5,000.00	57793	12/04/24
PORTER DO-IT BEST HARDWARE	SUPPLIES		289.95	57835	12/10/24
PREMIER AUTOMOTIVE	CAR 25 REPAIRS		67.29	57836	12/10/24

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK#	CHECK DATE
PURCHASE POWER	POSTAGE		60.21	57794	12/04/24
RISSI ELECTRIC	ELECTRICAL UPDATES PSB		856.65	57795	12/04/24
SAFE BUILDING COMPLIANCE	BUILDING INSPECTIONS	1,596.09		57796	12/04/24
SAFE BUILDING COMPLIANCE	RENTAL INSPECTIONS	80.00	1,676.09	57837	12/10/24
SECURITY EQUIPMENT INC	REPAIRS		1,415.00	57797	12/04/24
STANDARD INSURANCE COMPANY	LIFE/LTD/STD		2,387.41	57798	12/04/24
STAPLES	SUPPLIES		42.48	57799	12/04/24
STAR EQUIPMENT LTD	SUPPLIES		6,270.00	57800	12/04/24
SUNSET LAW ENFORCEMENT	HANDGUN TRAINING AMMO		993.30	57801	12/04/24
TARGET SOLUTIONS LEARNING LLC	TRAINING SOFTWARE		4,012.40	57802	12/04/24
TELEFLEX LLC	SUPPLIES		655.00	57803	12/04/24
TRANSUNION RISK & ALTERNATIVE	MONTHLY CHARGES		75.00	57838	12/10/24
UMB BANK	2016A BOND FEES	250.00		5301	12/10/24
UMB BANK	2016B BOND FEES	250.00	500.00	5302	12/10/24
UNITYPOINT OCC MED SIOUX CITY	DOT DRUG SCREEN		42.00	57839	12/10/24
UNIVERSITY DM ACE HARDWARE	CLOTHING ALLOWANCE		48.05	57840	12/10/24
UNPLUGGED WIRELESS COMMUNICATI	RADIO SUPPLIES		156.60	57841	12/10/24
UPHDM OCCUPATIONAL MED	PHYSICAL		276.04	57804	12/04/24
VAN WALL EQUIPMENT	REPAIRS		791.23	57842	12/10/24
VERIZON WIRELESS	CELL PHONES		280.58	5309	12/10/24
CAPITAL ONE	SUPPLIES		125.54	57805	12/04/24
WEST DES MOINES TRUE VALUE	SNOWPLOW SUPPLIES		189.93	57843	12/10/24
WHITE CAP, L.P.	SUPPLIES		646.20	57806	12/04/24
			=====		
	Accounts Payable Total		268,283.14		

Payroll Checks

001	GENERAL	73,563.66
110	ROAD USE TAX	11,350.41
670	LANDFILL/GARBAGE	79.47
740	STORM WATER	1,420.84

	Total Paid On: 12/06/24	86,414.38
		=====
	Total Payroll Paid	86,414.38
		=====
	Report Total	354,697.52
		=====

**CLAIMS REPORT
CLAIMS FUND SUMMARY****Payroll Checks: 11/23/2024-12/11/2024**

FUND	NAME	AMOUNT
001	GENERAL	157,076.45
110	ROAD USE TAX	49,188.80
112	EMPLOYEE BENEFITS	34,722.70
200	DEBT SERVICE	500.00
303	COLBY PARK	7,635.00
314	UNIVERSITY AVE ST PROJECT	368.00
322	73RD STREET PROJECT	21,419.53
323	68TH ST NORTH	1,516.50
326	68TH ST SOUTH	8,120.50
327	SALT SHED PROJECT	20,771.43
328	74TH ST PROJECT	11,242.50
330	FORREST CRT MILL/OVERLAY	2,392.00
610	SEWER	20.02
670	LANDFILL/GARBAGE	31,581.80
740	STORM WATER	8,142.29

	TOTAL FUNDS	354,697.52

BUDGET REPORT

CALENDAR 11/2024, FISCAL 5/2025

PCT OF FISCAL YTD 41.6%

ACCOUNT NUMBER	ACCOUNT TITLE	TOTAL BUDGET	MTD BALANCE	YTD BALANCE	PERCENT EXPENDED	UNEXPENDED
	POLICE TOTAL	2,626,800.00	139,903.15	946,192.02	36.02	1,680,607.98
	EMERGENCY MANAGEMENT TOTAL	10,700.00	.00	7,151.09	66.83	3,548.91
	FIRE TOTAL	460,873.00	25,685.97	183,924.27	39.91	276,948.73
	AMBULANCE TOTAL	928,838.00	66,500.23	358,160.09	38.56	570,677.91
	BUILDING INSPECTIONS TOTAL	100,000.00	4,195.00	47,555.77	47.56	52,444.23
	ANIMAL CONTROL TOTAL	5,500.00	375.00	3,217.00	58.49	2,283.00
	PUBLIC SAFETY TOTAL	4,132,711.00	236,659.35	1,546,200.24	37.41	2,586,510.76
	ROADS, BRIDGES, SIDEWALKS TOTA	791,160.00	40,336.94	351,235.16	44.39	439,924.84
	STREET LIGHTING TOTAL	55,000.00	3,642.68	18,509.19	33.65	36,490.81
	TRAFFIC CONTROL & SAFETY TOTAL	.00	.00	.00	.00	.00
	SNOW REMOVAL TOTAL	180,504.00	8,990.23	44,887.44	24.87	135,616.56
	OTHER PUBLIC WORKS TOTAL	29,400.00	9,923.77	30,173.01	102.63	773.01-
	PUBLIC WORKS TOTAL	1,056,064.00	62,893.62	444,804.80	42.12	611,259.20
	WATER,AIR,MOSQUITO CONTRO TOTA	.00	.00	.00	.00	.00
	OTHER HEALTH/SOCIAL SERV TOTA	.00	.00	.00	.00	.00
	HEALTH & SOCIAL SERVICES TOTA	.00	.00	.00	.00	.00
	LIBRARY TOTAL	67,600.00	16,882.63	33,765.26	49.95	33,834.74
	PARKS TOTAL	187,233.00	13,496.49	73,844.14	39.44	113,388.86
	COMMUNITY CTR/ZOO/MARINA TOTA	27,450.00	1,207.10	15,133.33	55.13	12,316.67
	SPECIAL EVENTS TOTAL	50,000.00	3,190.88	28,932.77	57.87	21,067.23
	COMMUNITY CENTER TOTAL	172,567.00	5,471.01	52,476.64	30.41	120,090.36
	CULTURE & RECREATION TOTAL	504,850.00	40,248.11	204,152.14	40.44	300,697.86
	COMMUNITY BEAUTIFICATION TOTA	.00	.00	.00	.00	.00
	ECONOMIC DEVELOPMENT TOTAL	275,337.00	.00	14,940.52	5.43	260,396.48
	HOUSING & URBAN RENEWAL TOTAL	52,290.00	2,242.00	2,242.00	4.29	50,048.00
	COMMUNITY & ECONOMIC DEV TOTA	327,627.00	2,242.00	17,182.52	5.24	310,444.48
	MAYOR/COUNCIL TOTAL	91,100.00	974.55	29,922.65	32.85	61,177.35
	IT DEPARTMENT TOTAL	72,300.00	5,943.44	22,395.06	30.98	49,904.94
	CLERK/TREASURER/ADM TOTAL	837,633.00	78,140.36	387,559.70	46.27	450,073.30
	ELECTIONS TOTAL	1,500.00	.00	.00	.00	1,500.00
	LEGAL SERVICES/ATTORNEY TOTAL	50,000.00	5,670.00	19,948.75	39.90	30,051.25
	OTHER GENERAL GOVERNMENT TOTA	15,000.00	.00	.00	.00	15,000.00
	GENERAL GOVERNMENT TOTAL	1,067,533.00	90,728.35	459,826.16	43.07	607,706.84

BUDGET REPORT

CALENDAR 11/2024, FISCAL 5/2025

PCT OF FISCAL YTD 41.6%

ACCOUNT NUMBER	ACCOUNT TITLE	TOTAL BUDGET	MTD BALANCE	YTD BALANCE	PERCENT EXPENDED	UNEXPENDED
	ROADS, BRIDGES, SIDEWALKS TOTA	1,701,483.00	253,339.52	253,639.52	14.91	1,447,843.48
	PARKS TOTAL	.00	.00	.00	.00	.00
	HOUSING & URBAN RENEWAL TOTAL	409,061.00	18,930.00	18,930.00	4.63	390,131.00
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	DEBT SERVICE TOTAL	2,110,544.00	272,269.52	272,569.52	12.91	1,837,974.48
	ASSETS TOTAL	.00	.00	.00	.00	.00
	POLICE TOTAL	361,000.00	.00	26,585.73	7.36	334,414.27
	FIRE TOTAL	7,500.00	.00	.00	.00	7,500.00
	AMBULANCE TOTAL	.00	.00	.00	.00	.00
	ROADS, BRIDGES, SIDEWALKS TOTA	15,722,130.00	469,716.28	1,905,920.48	12.12	13,816,209.52
	PARKS TOTAL	4,190,000.00	19,853.54	2,430,063.18	58.00	1,759,936.82
	COMMUNITY CENTER TOTAL	148,000.00	.00	87,735.00	59.28	60,265.00
	IT DEPARTMENT TOTAL	17,000.00	15,833.06	38,651.49	227.36	21,651.49-
	CAPITAL PROJECTS TOTAL	.00	40,721.50	59,044.50	.00	59,044.50-
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	CAPITAL PROJECTS TOTAL	20,445,630.00	546,124.38	4,548,000.38	22.24	15,897,629.62
	WATER TOTAL	.00	.00	.00	.00	.00
	SEWER/SEWAGE DISPOSAL TOTAL	31,650.00	17.36	515.95	1.63	31,134.05
	LANDFILL/GARBAGE TOTAL	395,902.00	32,844.70	188,184.53	47.53	207,717.47
	STORM WATER TOTAL	332,470.00	15,469.81	91,357.69	27.48	241,112.31
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	ENTERPRISE FUNDS TOTAL	760,022.00	48,331.87	280,058.17	36.85	479,963.83
	TRANSFERS IN/OUT TOTAL	2,480,526.00	.00	25,555.73	1.03	2,454,970.27
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	TRANSFER OUT TOTAL	2,480,526.00	.00	25,555.73	1.03	2,454,970.27
		=====	=====	=====	=====	=====
	TOTAL EXPENSES	32,885,507.00	1,299,497.20	7,798,349.66	23.71	25,087,157.34
		=====	=====	=====	=====	=====

REVENUE REPORT
CALENDAR 11/2024, FISCAL 5/2025**PCT OF FISCAL YTD 41.6%**

ACCOUNT NUMBER	ACCOUNT TITLE	BUDGET ESTIMATE	MTD BALANCE	YTD BALANCE	PERCENT RECVD	UNCOLLECTED
	GENERAL TOTAL	4,722,417.00	179,282.88	2,120,971.62	44.91	2,601,445.38
	ROAD USE TAX TOTAL	780,000.00	68,049.51	326,535.34	41.86	453,464.66
	EMPLOYEE BENEFITS TOTAL	511,306.00	99,104.54	347,965.58	68.05	163,340.42
	POLICE PENSION TOTAL	.00	.00	.00	.00	.00
	POLICE TRUST TOTAL	10,200.00	.00	81.84	.80	10,118.16
	POLICE PREFORFEITURE TOTAL	1,015.00	.00	5.55	.55	1,009.45
	EMERGENCY FUND TOTAL	.00	.00	.00	.00	.00
	LOCAL OPTION SALES TAX TOTAL	1,440,000.00	101,234.14	488,734.60	33.94	951,265.40
	TAX INCREMENT FINANCING TOTAL	2,317,282.00	32,259.84	1,110,825.68	47.94	1,206,456.32
	URBAN RENEWAL TOTAL	.00	.00	.00	.00	.00
	DEBT SERVICE TOTAL	3,130,750.00	29,040.15	580,197.67	18.53	2,550,552.33
	SIDEWALK PROGRAM TOTAL	.00	.00	.00	.00	.00
	COLBY PARK TOTAL	335,400.00	.00	.00	.00	335,400.00
	HICKMAN ROAD PROJECT TOTAL	.00	.00	.00	.00	.00
	2014A STREETS PROJECTS TOTAL	.00	.00	.00	.00	.00
	TRAIL CONNECTION TOTAL	.00	.00	.00	.00	.00
	63/HICKMAN ST SCAPE TOTAL	.00	.00	.00	.00	.00

REVENUE REPORT
CALENDAR 11/2024, FISCAL 5/2025**PCT OF FISCAL YTD 41.6%**

ACCOUNT NUMBER	ACCOUNT TITLE	BUDGET ESTIMATE	MTD BALANCE	YTD BALANCE	PERCENT RECVD	UNCOLLECTED
	2017/18 Capital Projects TOTA	.00	.00	.00	.00	.00
	UNIVERSITY AVE ST PROJECT TOTA	.00	.00	.00	.00	.00
	2018 HMA RESURFACING PROJ TOTA	.00	.00	.00	.00	.00
	2018 PCC PATCHING PROJECT TOTA	.00	.00	.00	.00	.00
	WAL CREEK BIKE HUB/BRIDGE TOTA	.00	.00	.00	.00	.00
	CEC SOLAR PROJECT TOTAL	.00	.00	.00	.00	.00
	2020 STREET PROJECTS TOTAL	.00	.00	.00	.00	.00
	2020 PCC PATCHING TOTAL	.00	.00	.00	.00	.00
	WAL CREEK STREAM PROJECT TOTA	.00	.00	.00	.00	.00
	73RD STREET PROJECT TOTAL	2,382,300.00	.00	.00	.00	2,382,300.00
	68TH ST NORTH TOTAL	.00	.00	.00	.00	.00
	2023 HMA OVERLAY PROJECT TOTA	.00	.00	.00	.00	.00
	2023 PCC PATCHING PROJECT TOTA	.00	.00	.00	.00	.00
	68TH ST SOUTH TOTAL	3,760,000.00	.00	.00	.00	3,760,000.00
	SALT SHED PROJECT TOTAL	.00	.00	.00	.00	.00
	74TH ST PROJECT TOTAL	.00	.00	.00	.00	.00
	PUBLIC SAFETY PARKING LOT TOTA	.00	.00	.00	.00	.00

REVENUE REPORT

CALENDAR 11/2024, FISCAL 5/2025

PCT OF FISCAL YTD 41.6%

ACCOUNT NUMBER	ACCOUNT TITLE	BUDGET ESTIMATE	MTD BALANCE	YTD BALANCE	PERCENT RECVD	UNCOLLECTED
	FORREST CRT MILL/OVERLAY TOTA	.00	.00	.00	.00	.00
	DOG PARK UPDATES TOTAL	.00	.00	.00	.00	.00
	FLOOD MITIGATION TOTAL	.00	.00	.00	.00	.00
	AMERICAN RESCUE PLAN ACT TOTA	.00	.00	.00	.00	.00
	FUTURE STREET PROJECTS TOTAL	977,400.00	.00	.00	.00	977,400.00
	CAPITAL EQUIPMENT FUND TOTAL	385,500.00	552.00	31,141.13	8.08	354,358.87
	WATER TOTAL	.00	.00	.00	.00	.00
	SEWER TOTAL	.00	.00	.00	.00	.00
	LANDFILL/GARBAGE TOTAL	358,000.00	24,470.67	138,172.53	38.60	219,827.47
	STORM WATER TOTAL	625,600.00	50,114.15	238,238.03	38.08	387,361.97
	INTERNAL SERVICE FUND TOTAL	.00	.00	.00	.00	.00
	REVOLVING FUND TOTAL	.00	.00	.00	.00	.00
	TOTAL REVENUE BY FUND	=====	=====	=====	=====	=====
		21,737,170.00	584,107.88	5,382,869.57	24.76	16,354,300.43
		=====	=====	=====	=====	=====

BALANCE SHEET

CALENDAR 11/2024, FISCAL 5/2025

ACCOUNT NUMBER	ACCOUNT TITLE	MTD BALANCE	YTD BALANCE
001-000-1110	CASH - GENERAL	148,024.95-	348,234.95
110-000-1110	CASH - RUT	12,921.49	77,600.24
112-000-1110	CASH - EMP BENEFIT FUND	50,029.96	46,803.10-
113-000-1110	CASH - POLICE PENSION	.00	.00
114-000-1110	CASH - POLICE TRUST	.00	25,477.41-
115-000-1110	CASH - POLICE PREFORFEIT	.00	1,602.32-
119-000-1110	CASH - EMERGENCY FUND	.00	.00
121-000-1110	CASH - LOCAL OPTION SALES TAX	101,234.14	2,070,704.73
125-000-1110	CASH - TIF	32,259.84	2,335,967.78
145-000-1110	CASH - URBAN RENEWAL FUNDS	40,721.50-	34,666.42
200-000-1110	CASH - DEBT SERVICE	243,229.37-	335,391.60
302-000-1110	CASH - SIDEWALK PROGRAM	.00	47,995.00
303-000-1110	CASH - COLBY PARK	19,853.54-	1,961,793.94-
306-000-1110	CASH - HICKMAN ROAD PROJECT	.00	.00
309-000-1110	CASH - 2014 A STREET PROJECT	.00	.00
311-000-1110	CASH - TRAIL CONNECTION	.00	.00
312-000-1110	CASH - 63/HICKMAN STREETScape	.00	.00
313-000-1110	CASH - 2017/18 STREET PROJECTS	.00	.00
314-000-1110	CASH - UNIVERSITY AVE PROJECT	.00	16,117.00-
315-000-1110	CASH - 2018 HMA PROJ	.00	.00
316-000-1110	CASH - 2018 PCC PATCHING PROJ	.00	.00
317-000-1110	CASH - WAL CREEK BIKE HUB/BRID	.00	.00
318-000-1110	CASH - CEC SOLAR PROJECT	.00	97,185.00-
319-000-1110	CASH - 2020 STREET PROJECTS	.00	1,798.50-
320-000-1110	CASH - 2020 PCC PATCHING	.00	.00
321-000-1110	CASH - WAL CREEK STREAM PROJ	.00	.00
322-000-1110	CASH - 73RD ST	318,465.33-	679,219.55-
323-000-1110	CASH - 68TH STREET NORTH	13,483.25-	127,587.56
324-000-1110	CASH - 2023 HMA OVERLAY	.00	.00
325-000-1110	CASH - 2023 PCC PATCHING PROJ	.00	.00
326-000-1110	CASH - 68TH ST SOUTH	15,178.00-	132,639.55
327-000-1110	CASH - SALT SHED	118,148.20-	39,267.11
328-000-1110	CASH - 74TH ST	856.50-	8,525.00-
329-000-1110	CASH - PUBLIC SAFETY PARKING L	.00	.00
330-000-1110	CASH - FORREST COURT	3,585.00-	5,200.00-
333-000-1110	CASH - DOG PARK UPDATES	.00	.00
347-000-1110	CASH - FLOOD MITIGATION	.00	.00
348-000-1110	CASH - ARPA FUNDS	.00	.17-
349-000-1110	CASH - FUTURE STREET PROJECTS	.00	99,118.97
350-000-1110	CASH - EQUIP REVOLVE FUND	.00	2,915.68
350-000-1180	CASH - EQUIP REVOLVE - POLICE	.00	153,295.80-
350-000-1181	CASH - EQUIP REVOLVE - FIRE/EM	.00	105,021.88
350-000-1182	CASH - EQUIP REV - NOT USED	.00	.00
350-000-1183	CASH - EQUIP REV - PUBLIC WORK	.00	48,457.82-
350-000-1185	CASH - EQUIP REVOLVE - PARKS	.00	.00
350-000-1186	CASH - EQUIP REVOLVE - CEC	552.00	115,893.69
350-000-1187	CASH - EQUIP REVOLVE - IT DEPT	15,833.06-	1,396.05
600-000-1110	CASH - WATER	.00	103,254.44-
610-000-1110	CASH - SEWER	17.36-	1,689.58
670-000-1110	CASH - LANDFILL/GARBAGE	8,374.03-	127,286.52
740-000-1110	CASH - STORM WATER	34,644.34	487,284.09

BALANCE SHEET

CALENDAR 11/2024, FISCAL 5/2025

ACCOUNT NUMBER	ACCOUNT TITLE	MTD BALANCE	YTD BALANCE
0805-000-1110	CASH - INTERNAL SERVICE FUND	.00	.00
0810-000-1110	CASH - REVOLVING FUND	.00	.00
	CASH TOTAL	714,128.32-	3,341,931.35
0001-000-1115	RESERVE CASH - COMM CENTER	.00	.00
	RESERVE CASH TOTAL	.00	.00
0115-000-1120	PETTY CASH - POLICE FOREITURE	.00	1,000.00
	PETTY CASH TOTAL	.00	1,000.00
0001-000-1150	IPAIT - GENERAL	.00	1,855,412.06
0110-000-1150	IPAIT - RUT	.00	942,871.73
0112-000-1150	IPAIT - EMPLOYEE BENEFITS	.00	790,816.57
0121-000-1150	IPAIT - LOCAL OPTION SALES TAX	.00	.00
0125-000-1150	IPAIT - TIF	.00	389,248.18
0145-000-1150	IPAIT - URBAN RENEWAL FUNDS	.00	217,745.98
0200-000-1150	IPAIT - DEBT SERVICE	.00	468,319.03
0303-000-1150	IPAIT - COLBY PARK	.00	1,584,290.86
0314-000-1150	IPAIT - UNIVERSITY AVE PROJECT	.00	28,613.52
0319-000-1150	IPAIT - 2020 STREET PROJECTS	.00	12,236.23
0322-000-1150	IPAIT - 73RD STREET	.00	411,143.55
0323-000-1150	IPAIT - 68TH STREET NORTH	.00	101,252.28
0326-000-1150	IPAIT - 68TH ST SOUTH	.00	.00
0348-000-1150	IPAIT - ARPA FUNDS	.00	.00
0349-000-1150	IPAIT - FUTURE STREET PROJECTS	.00	330,347.11
0350-000-1150	IPAIT - EQUIP REVOLVING	.00	1,056,193.93
0670-000-1150	IPAIT - LANDFILL/GARBAGE	.00	213,138.90
0740-000-1150	IPAIT - STORM WATER	.00	1,581,240.45
	IPAIT TOTAL	.00	9,982,870.38
0001-000-1151	IPAIT 201-TIF BONDS GENERAL	.00	.00
0322-000-1151	IPAIT 201-TIF BONDS 73RD ST	.00	4,552,924.71
0326-000-1151	IPAIT 201-TIF BONDS 68TH ST S.	.00	2,766,750.95
	IPAIT 201-TIF BONDS TOTAL	.00	7,319,675.66
0001-000-1160	SAVINGS - 680-5592 - GENERAL	.00	.00
0001-000-1161	SAVINGS - KWHB	.00	3,077.64
0112-000-1160	SAVINGS - EMP BENEFIT 689-6237	.00	.00
0113-000-1160	SAVINGS - 680-2292 - POLICE	.00	.00
0114-000-1160	SAVINGS - POLICE TRUST	.00	49,371.71
0115-000-1160	SAVINGS - PREF/DEA	.00	3,912.88

BALANCE SHEET
CALENDAR 11/2024, FISCAL 5/2025

ACCOUNT NUMBER	ACCOUNT TITLE	MTD BALANCE	YTD BALANCE
	SAVINGS TOTAL	.00	56,362.23
001-000-1170	CD 082009 - KWHB	.00	11,643.05
600-000-1170	CD 12062707- WATER	.00	107,401.50
810-000-1170	CD 050109 - REVOLVING FUND	.00	.00
		-----	-----
	CD'S TOTAL	.00	119,044.55
		=====	=====
	TOTAL CASH	714,128.32-	20,820,884.17
		=====	=====



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Strait, City Clerk

SUBJECT: Approve Liquor License - Centerfield Sports Bar - 6555 University Ave

GENERAL INFORMATION

ATTACHMENTS

1. Centerfield Alcohol License Application



State of Iowa

Alcoholic Beverages Division

Applicant

NAME OF LEGAL ENTITY	NAME OF BUSINESS(DBA)	BUSINESS		
SWAG GROUP, LLC	Centerfield Sports Bar	(515) 419-0626		
ADDRESS OF PREMISES	PREMISES SUITE/APT NUMBER	CITY	COUNTY	ZIP
6555 University Ave		Windsor Heights	Polk	50324
MAILING ADDRESS	CITY	STATE	ZIP	
4812 Sawyers Drive	Des Moines	Iowa	50310	

Contact Person

NAME	PHONE	EMAIL
David Stout	(515) 664-7449	dstout1976@yahoo.com

License Information

LICENSE NUMBER	LICENSE/PERMIT TYPE	TERM	STATUS
LC0047856	Class C Retail Alcohol License	12 Month	Submitted to Local Authority
EFFECTIVE DATE	EXPIRATION DATE	LAST DAY OF BUSINESS	
Dec 30, 2024	Dec 29, 2025		
SUB-PERMITS			
Class C Retail Alcohol License			



State of Iowa

Alcoholic Beverages Division

PRIVILEGES

Outdoor Service

Status of Business

BUSINESS TYPE

Limited Liability Company

Ownership

• Individual Owners

NAME	CITY	STATE	ZIP	POSITION	% OF OWNERSHIP	U.S. CITIZEN
David Stout	Des Moines	Iowa	50310	Member	55.00	Yes
Crystal Wolfe	Des Moines	Iowa	50310	LLC Member	45.00	Yes

Insurance Company Information

INSURANCE COMPANY

Founders Insurance Company

POLICY EFFECTIVE DATE

Dec 30, 2024

POLICY EXPIRATION DATE

Dec 30, 2025

DRAM CANCEL DATE

OUTDOOR SERVICE EFFECTIVE DATE

OUTDOOR SERVICE EXPIRATION DATE

BOND EFFECTIVE DATE

TEMP TRANSFER EFFECTIVE DATE

TEMP TRANSFER EXPIRATION DATE



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Justin Ernst, City Engineer

SUBJECT: Approve 73rd Street Phase 1 STP-U-8477(615)—70-77 Pay Request 7

GENERAL INFORMATION

ATTACHMENTS

1. LTR-73rd Street-Pay App 7
2. payment_7_20241205



**BOLTON
& MENK**

Real People. Real Solutions.

430 E Grand Avenue
Suite 101
Des Moines, IA 50309

Ph: (515) 259-9190
Fax: (515) 233-4430
Bolton-Menk.com

December 10, 2024

Mr. Adam Plagge
City Administrator
City of Windsor Heights, Iowa

RE: 73rd Street Phase 1
STP-U-8477(615)—70-77
Pay Request 7

Dear Mr. Plagge:

Submitted for your approval is Pay Request 7 for the above-mentioned project. Pay Request 7 is for a total payment of \$72,124.79. The total value completed to date is \$1,667,049.71 minus the retainage of \$30,000. Please see Pay Request 7 for a full summary of the items completed that are included in this payment.

Bolton & Menk, Inc., recommends the approval of Pay Application 7. Upon approval of Pay Request 7, City Clerk or City Administrator to electronically sign in DocExpress and mail payment to the Absolute Concrete Construction, Inc.

Please let me know if you have any questions.

Sincerely,

Bolton & Menk, Inc.

Justin Ernst, PE
Principal Engineer



City of Windsor Heights - Iowa

Detailed Payment

77-8477-615

Description	STP-U-8477(615)--70-77, Letting Date- March 19, 2024 73rd st Phase 1
Payment Number	7
Pay Period	11/01/2024 to 11/30/2024
Prime Contractor	ABSOLUTE CONCRETE CONSTRUCTION, INC.
Payment Status	Pending
Awarded Project Amount	\$6,739,027.05
Authorized Amount	\$6,835,936.45

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
Section: 0001 - STP-U-8477(615)--70-77, Roadway Items - Division 1										
0010	2101-0850002	UNIT	\$440.000	22.300	0.000	58.000	58.000	58.000	\$0.00	\$25,520.00
CLEARING AND GRUBBING										
0020	2102-0425071	CY	\$50.000	50.000	234.000	0.000	234.000	234.000	\$11,700.00	\$11,700.00
SPECIAL BACKFILL										
0030	2102-2710070	CY	\$15.000	10,333.000	0.000	3,444.334	3,444.334	3,444.334	\$0.00	\$51,665.01
EXCAVATION, CLASS 10, ROADWAY AND BORROW										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
0040	2102-2710080	CY	\$15.000	165.000	234.000	0.000	234.000	234.000	\$3,510.00	\$3,510.00
EXCAVATION, CLASS 10, UNSUITABLE OR UNSTABLE MATERIAL										
0050	2105-8425015	CY	\$8.000	2,124.000	0.000	354.000	354.000	354.000	\$0.00	\$2,832.00
TOPSOIL, STRIP, SALVAGE AND SPREAD										
0060	2109-8225100	STA	\$1,000.000	53.600	0.000	6.750	6.750	6.750	\$0.00	\$6,750.00
SPECIAL COMPACTION OF SUBGRADE										
0070	2113-0001100	SY	\$5.000	5,000.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
SUBGRADE STABILIZATION MATERIAL, POLYMER GRID										
0080	2115-0100000	CY	\$60.000	4,035.000	512.500	501.400	1,013.900	1,013.900	\$30,750.00	\$60,834.00
MODIFIED SUBBASE										
0090	2115-0100000	CY	\$60.000	181.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
MODIFIED SUBBASE: , TRAIL										
0100	2123-7450020	STA	\$150.000	81.700	0.000	12.621	12.621	12.621	\$0.00	\$1,893.15
SHOULDER FINISHING, EARTH										
0110	2301-1033080	SY	\$75.000	19,678.000	0.000	2,519.817	2,519.817	2,519.817	\$0.00	\$188,986.28
STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.										
0120	2301-6911722	LS	\$10,000.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES										
0130	2304-0101000	SY	\$60.000	1,500.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
TEMPORARY PAVEMENT										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
0140	2312-8260051	TON	\$40.000	500.000	0.000	60.250	60.250	60.250	\$0.00	\$2,410.00
GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE										
0150	2435-0140148	EACH	\$5,500.000	6.000	0.000	1.000	1.000	1.000	\$0.00	\$5,500.00
MANHOLE, STORM SEWER, SW-401, 48 IN.										
0160	2435-0140160	EACH	\$7,800.000	7.000	0.000	4.000	4.000	4.000	\$0.00	\$31,200.00
MANHOLE, STORM SEWER, SW-401, 60 IN.										
0170	2435-0140172	EACH	\$10,000.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
MANHOLE, STORM SEWER, SW-401, 72 IN.										
0180	2435-0140196	EACH	\$17,000.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
MANHOLE, STORM SEWER, SW-401, 96 IN.										
0190	2435-0250500	EACH	\$5,600.000	34.000	0.000	9.000	9.000	9.000	\$0.00	\$50,400.00
INTAKE, SW-505										
0200	2435-0250600	EACH	\$12,000.000	17.000	0.000	8.000	8.000	8.000	\$0.00	\$96,000.00
INTAKE, SW-506										
0210	2435-0250900	EACH	\$7,300.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
INTAKE, SW-509										
0220	2435-0251000	EACH	\$8,500.000	3.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
INTAKE, SW-510										
0230	2435-0251230	EACH	\$4,100.000	1.000	0.000	1.000	1.000	1.000	\$0.00	\$4,100.00
INTAKE, SW-512, 30 IN.										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
0240	2435-0251236	EACH	\$4,800.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
INTAKE, SW-512, 36 IN.										
0250	2435-0600010	EACH	\$2,300.000	33.000	0.000	10.000	10.000	10.000	\$0.00	\$23,000.00
MANHOLE ADJUSTMENT, MINOR										
0260	2435-0600020	EACH	\$6,000.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
MANHOLE ADJUSTMENT, MAJOR										
0270	2435-0600110	EACH	\$1,800.000	2.000	0.000	1.000	1.000	1.000	\$0.00	\$1,800.00
INTAKE ADJUSTMENT, MINOR										
0280	2435-0600120	EACH	\$7,500.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
INTAKE ADJUSTMENT, MAJOR										
0290	2435-0700010	EACH	\$3,700.000	2.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
CONNECTION TO EXISTING MANHOLE										
0300	2502-8212206	LF	\$22.000	5,105.000	0.000	724.700	724.700	724.700	\$0.00	\$15,943.40
SUBDRAIN, PERFORATED PLASTIC PIPE, 6 IN. DIA.										
0310	2502-8221006	EACH	\$800.000	17.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
SUBDRAIN RISER, 6 IN., AS PER PLAN										
0320	2502-8221303	EACH	\$400.000	17.000	0.000	2.000	2.000	2.000	\$0.00	\$800.00
SUBDRAIN OUTLET, DR-303										
0330	2503-0114212	LF	\$200.000	8.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 12 IN.										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
0340	2503-0114215	LF	\$80.000	991.000	0.000	272.000	272.000	272.000	\$0.00	\$21,760.00
STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.										
0350	2503-0114218	LF	\$85.000	778.000	0.000	27.000	27.000	27.000	\$0.00	\$2,295.00
STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN.										
0360	2503-0114224	LF	\$110.000	2,556.000	0.000	616.000	616.000	616.000	\$0.00	\$67,760.00
STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.										
0370	2503-0114230	LF	\$130.000	543.000	0.000	416.000	416.000	416.000	\$0.00	\$54,080.00
STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 30 IN.										
0380	2503-0114236	LF	\$170.000	144.000	0.000	33.000	33.000	33.000	\$0.00	\$5,610.00
STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 36 IN.										
0390	2503-0114248	LF	\$450.000	8.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 48 IN.										
0400	2503-0114254	LF	\$610.000	8.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 54 IN.										
0410	2503-0114266	LF	\$850.000	8.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 66 IN.										
0420	2503-0200036	LF	\$25.000	3,335.000	0.000	755.400	755.400	755.400	\$0.00	\$18,885.00
REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.										
0430	2503-0200136	LF	\$45.000	79.000	0.000	38.000	38.000	38.000	\$0.00	\$1,710.00
REMOVE STORM SEWER PIPE GREATER THAN 36 IN.										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
0440	2504-0200404	LF	\$130.000	160.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
SANITARY SEWER SERVICE STUB, POLYVINYL CHLORIDE PIPE (PVC), 4 IN.										
0450	2510-6745850	SY	\$10.000	17,965.000	0.000	4,630.490	4,630.490	4,630.490	\$0.00	\$46,304.90
REMOVAL OF PAVEMENT										
0460	2510-6750600	EACH	\$900.000	50.000	0.000	20.000	20.000	20.000	\$0.00	\$18,000.00
REMOVAL OF INTAKES AND UTILITY ACCESSES										
0470	2511-0300000	SY	\$10.000	550.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
REMOVAL OF RECREATIONAL TRAIL										
0480	2511-0302600	SY	\$49.000	715.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.										
0490	2511-0310100	STA	\$750.000	7.700	0.000	0.000	0.000	0.000	\$0.00	\$0.00
SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL										
0500	2511-6745900	SY	\$10.000	3,506.000	0.000	676.000	676.000	676.000	\$0.00	\$6,760.00
REMOVAL OF SIDEWALK										
0510	2511-7526004	SY	\$49.750	4,023.000	0.000	591.050	591.050	591.050	\$0.00	\$29,404.74
SIDEWALK, P.C. CONCRETE, 4 IN.										
0520	2511-7526006	SY	\$77.000	267.000	0.000	101.263	101.263	101.263	\$0.00	\$7,797.25
SIDEWALK, P.C. CONCRETE, 6 IN.										
0530	2511-7528101	SF	\$51.000	362.000	0.000	70.000	70.000	70.000	\$0.00	\$3,570.00
DETECTABLE WARNINGS										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
0540	2512-1725206	LF	\$79.000	10.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
CURB AND GUTTER, P.C. CONCRETE, 2.0 FT.										
0550	2514-0000200	STA	\$1,000.000	0.500	0.000	0.000	0.000	0.000	\$0.00	\$0.00
REMOVAL OF CURB										
0560	2515-2475006	SY	\$52.500	2,550.000	0.000	266.410	266.410	266.410	\$0.00	\$13,986.53
DRIVEWAY, P.C. CONCRETE, 6 IN.										
0570	2515-2475007	SY	\$54.000	1,047.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
DRIVEWAY, P.C. CONCRETE, 7 IN.										
0580	2515-6745600	SY	\$10.000	3,212.000	0.000	659.008	659.008	659.008	\$0.00	\$6,590.08
REMOVAL OF PAVED DRIVEWAY										
0590	2523-0000310	EACH	\$1,235.000	6.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
HANDHOLES AND JUNCTION BOXES										
0600	2524-6765110	EACH	\$300.000	72.000	0.000	16.000	16.000	16.000	\$0.00	\$4,800.00
REMOVAL OF TYPE A SIGN										
0610	2524-6765210	EACH	\$100.000	21.000	0.000	4.000	4.000	4.000	\$0.00	\$400.00
REMOVAL OF TYPE A SIGN ASSEMBLY										
0620	2524-9276010	LF	\$35.000	390.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
PERFORATED SQUARE STEEL TUBE POSTS										
0630	2524-9276021	EACH	\$100.000	39.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
0640	2524-9325001	SF	\$35.000	392.500	0.000	0.000	0.000	0.000	\$0.00	\$0.00
TYPE A SIGNS, SHEET ALUMINUM										
0650	2525-0000100	LS	\$100,000.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
TRAFFIC SIGNALIZATION										
0660	2527-9263109	STA	\$86.000	136.000	0.000	9.770	9.770	9.770	\$0.00	\$840.22
PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED										
0670	2527-9263117	STA	\$116.000	168.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
PAINTED PAVEMENT MARKINGS, DURABLE										
0680	2527-9263137	EACH	\$130.000	25.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED										
0690	2527-9263143	EACH	\$185.000	25.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
PAINTED SYMBOLS AND LEGENDS, DURABLE										
0700	2527-9270111	STA	\$83.000	168.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
GROOVES CUT FOR PAVEMENT MARKINGS										
0710	2527-9270120	EACH	\$220.000	25.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
GROOVES CUT FOR SYMBOLS AND LEGENDS										
0720	2528-8445110	LS	\$75,000.000	1.000	0.000	0.327	0.327	0.327	\$0.00	\$24,525.00
TRAFFIC CONTROL										
0730	2528-9290050	CDAY	\$200.000	60.000	0.000	14.000	14.000	14.000	\$0.00	\$2,800.00
PORTABLE DYNAMIC MESSAGE SIGN (PDMS)										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
0740	2529-5070110	SY	\$100.000	51.000	0.000	100.678	100.678	100.678	\$0.00	\$10,067.80
PATCHES, FULL-DEPTH FINISH, BY AREA										
0750	2533-4980005	LS	\$600,000.000	1.000	0.000	0.500	0.500	0.500	\$0.00	\$300,000.00
MOBILIZATION										
0760	2552-0000220	CY	\$75.000	975.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL										
0770	2599-9999010	LS	\$15,000.000	1.000	0.000	0.320	0.320	0.320	\$0.00	\$4,800.00
('LUMP SUM' ITEM): MAINTENANCE OF SOLID WASTE COLLECTION										
0780	2599-9999010	LS	\$1,850.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
('LUMP SUM' ITEM): REMOVE AND REINSTALL ELECTRONIC SPEED SIGN										
0790	2599-9999010	LS	\$7,200.000	1.000	0.000	0.327	0.327	0.327	\$0.00	\$2,354.40
('LUMP SUM' ITEM): SWPPP MANAGEMENT										
0800	2599-9999010	LS	\$80,000.000	1.000	0.000	0.440	0.440	0.440	\$0.00	\$35,200.00
('LUMP SUM' ITEM): VIBRATION MONITORING										
0810	2601-2634105	ACRE	\$4,110.000	2.630	0.000	0.000	0.000	0.000	\$0.00	\$0.00
MULCHING, BONDED FIBER MATRIX										
0820	2601-2639010	SQ	\$65.000	1,150.000	0.000	170.000	170.000	170.000	\$0.00	\$11,050.00
SODDING										
0830	2601-2643110	MGAL	\$75.000	690.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
0840	2602-0000150	LF	\$15.000	300.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
STABILIZED CONSTRUCTION ENTRANCE, EC-303										
0850	2602-0000309	LF	\$3.000	10,000.000	0.000	155.000	155.000	155.000	\$0.00	\$465.00
PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.										
0860	2602-0000351	LF	\$0.010	10,000.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE										
0870	2602-0000500	LF	\$10.000	32.000	0.000	16.000	16.000	16.000	\$0.00	\$160.00
OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602										
0880	2602-0000530	EACH	\$95.000	110.000	0.000	20.000	20.000	20.000	\$0.00	\$1,900.00
GRATE INTAKE SEDIMENT FILTER BAG, EC-604										
0890	2602-0010010	EACH	\$600.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
MOBILIZATIONS, EROSION CONTROL										
0900	2602-0010020	EACH	\$1,200.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
MOBILIZATIONS, EMERGENCY EROSION CONTROL										
8001	2599-9999005	EACH	\$14,250.000	1.000	0.000	1.000	1.000	1.000	\$0.00	\$14,250.00
('EACH' ITEM): INTAKE, SW-506 MOD, CAST-IN-PLACE										
8002	2435-0250610	EACH	\$14,410.000	2.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
INTAKE, SW-506 MOD										
8009	2599-9999018	SY	\$0.300	19,678.000	0.000	2,519.817	2,519.817	2,519.817	\$0.00	\$755.95
('SQUARE YARDS' ITEM): (REINFORCEMENT ADJ)										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
8010	2430-0000100	SF	\$74.000	144.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
MODULAR BLOCK RETAIN WALL										
Section Totals:									\$45,960.00	\$1,303,725.71
Section: 0002 - STP-U-8477(615)--70-77, Roadway Items - Division 2										
0910	2554-0114004	LF	\$65.000	35.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 4 IN.										
0920	2554-0114006	LF	\$60.000	101.000	0.000	124.000	124.000	124.000	\$0.00	\$7,440.00
WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 6 IN.										
0930	2554-0114008	LF	\$55.000	558.000	0.000	175.000	175.000	175.000	\$0.00	\$9,625.00
WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 8 IN.										
0940	2554-0114008	LF	\$80.000	455.000	0.000	99.000	99.000	99.000	\$0.00	\$7,920.00
WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 8 IN.: RESTRAINED JOINT										
0950	2554-0114012	LF	\$80.000	3,703.000	0.000	702.000	702.000	702.000	\$0.00	\$56,160.00
WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 12 IN.										
0960	2554-0114012	LF	\$105.000	631.000	0.000	550.000	550.000	550.000	\$0.00	\$57,750.00
WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 12 IN.: RESTRAINED JOINT										
0970	2554-0134008	LF	\$165.000	100.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 8 IN.										
0980	2554-0134012	LF	\$240.000	100.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 12 IN.										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
0990	2554-0203000	LB	\$20.000	6,162.000	0.000	3,467.000	3,467.000	3,467.000	\$0.00	\$69,340.00
FITTINGS BY WEIGHT, DUCTILE IRON										
1000	2554-0207008	EACH	\$2,700.000	12.000	0.000	3.000	3.000	3.000	\$0.00	\$8,100.00
VALVE, GATE, DIP, 8 IN.										
1010	2554-0207012	EACH	\$4,500.000	9.000	0.000	2.000	2.000	2.000	\$0.00	\$9,000.00
VALVE, GATE, DIP, 12 IN.										
1020	2554-0210201	EACH	\$8,500.000	15.000	0.000	5.000	5.000	5.000	\$0.00	\$42,500.00
FIRE HYDRANT ASSEMBLY, WM-201										
1030	2554-0211002	EACH	\$1,750.000	6.000	0.000	6.000	6.000	6.000	\$0.00	\$10,500.00
FLUSHING DEVICE (BLOWOFF), 2 IN.										
1040	2599-9999005	EACH	\$6,500.000	2.000	0.000	1.000	1.000	1.000	\$0.00	\$6,500.00
('EACH' ITEM): PREPARE EXCAVATION FOR TAPPING SLEEVE & VALVE										
1050	2599-9999005	EACH	\$410.000	51.000	0.000	16.000	16.000	16.000	\$0.00	\$6,560.00
('EACH' ITEM): TAP FEE, 1-IN, REPLACEMENT TAP FOR WATER SERVICE TRANSFER										
1060	2599-9999005	EACH	\$1,725.000	3.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
('EACH' ITEM): TAP FEE, 2-IN, REPLACEMENT TAP FOR WATER SERVICE TRANSFER										
1070	2599-9999005	EACH	\$3,800.000	11.000	0.000	1.000	1.000	1.000	\$0.00	\$3,800.00
('EACH' ITEM): WATER SERVICE TRANSFER, COPPER, 1-IN, OPPOSITE SIDE										
1080	2599-9999005	EACH	\$3,000.000	40.000	0.000	15.000	15.000	15.000	\$0.00	\$45,000.00
('EACH' ITEM): WATER SERVICE TRANSFER, COPPER, 1-IN, SAME SIDE										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
1090	2599-9999005	EACH	\$5,400.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
('EACH' ITEM): WATER SERVICE TRANSFER, COPPER, 2-IN, OPPOSITE SIDE										
1100	2599-9999005	EACH	\$3,400.000	2.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
('EACH' ITEM): WATER SERVICE TRANSFER, COPPER, 2-IN, SAME SIDE										
1110	2599-9999005	EACH	\$6,100.000	1.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
('EACH' ITEM): WATER SERVICE TRANSFER, EQUAL TO OR GREATER THAN 3, SAME SIDE										
1120	2599-9999009	LF	\$45.000	1,005.000	0.000	436.000	436.000	436.000	\$0.00	\$19,620.00
('LINEAR FEET' ITEM): REMOVAL OF EXISTING WATER MAIN IN CONFLICT WITH NEW CONSTRUCTION										
1130	2599-9999020	TON	\$65.000	100.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
('TONS' ITEM): FOUNDATION ROCK										
8003	2504-0114018	LF	\$572.000	20.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
SAN SWR G-MAIN, TRENCHED, PVC, 18"										
8004	2554-0112008	LF	\$247.500	8.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
WATER MAIN, TRENCHED, DIP, 8"										
8005	2554-0112012	LF	\$154.000	260.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
WATER MAIN, TRENCHED, DIP, 12"										
8006	2554-0207006	EACH	\$3,509.000	3.000	0.000	1.000	1.000	1.000	\$0.00	\$3,509.00
VALVE, GATE, DIP, 6"										
8007	2554-0112012	LF	\$176.000	83.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
WATER MAIN, TRENCHED, DIP, 12": (RESTRAINED JOINT)										

Line Number	Item ID	Unit	Unit Price	Authorized Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed To Date	Current Payment Amount	Total Amount Paid To Date
8008	2599-9999005	EACH	\$1,760.000	8.000	0.000	0.000	0.000	0.000	\$0.00	\$0.00
('EACH' ITEM): 32 LB MAGNESIUM ANODE										
Section Totals:									\$0.00	\$363,324.00
Total Payments:									\$45,960.00	\$1,667,049.71

Time Charges

Time Limit	Original Deadline	Authorized Deadline	Charges This Period	Damages This Period	Days Completed To Date	Days Remaining To Date	Damages To Date
Working Days, Late Start Date - 05/06/2024, Liquidated Damage Rate - 2,500	300.0 Days	306.0 Days	9.5 Days	\$0.00	114.0 Days	192.0 Days	\$0.00
Total Damages:							\$0.00

Stockpiles

Stockpile	Fund Package	Current Advancements	Advancements To Date	Current Recoveries	Recoveries To Date
#1 - 2554-0203000	77-8477-615-CAT-2 77-8477-615-CAT-2 77-8477-615	\$0.00	\$12,845.16	\$0.00	\$12,845.16
FITTINGS BY WEIGHT, DUCTILE IRON					
#2 - 2554-0207008	77-8477-615-CAT-2 77-8477-615-CAT-2 77-8477-615	\$0.00	\$5,580.00	\$0.00	\$3,720.00
Totals:		\$26,164.79	\$58,873.55	\$0.00	\$24,181.09

Stockpile	Fund Package	Current Advancements	Advancements To Date	Current Recoveries	Recoveries To Date
VALVE, GATE, DIP, 8 IN.					
#3 - 2554-0114012	77-8477-615-CAT-2 77-8477-615-CAT-2 77-8477-615	\$0.00	\$3,430.00	\$0.00	\$3,430.00
WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 12 IN.					
#4 - 2554-0211002	77-8477-615-CAT-2 77-8477-615-CAT-2 77-8477-615	\$0.00	\$185.93	\$0.00	\$185.93
FLUSHING DEVICE (BLOWOFF), 2 IN.					
#5 - 2599-9999005	77-8477-615-CAT-2 77-8477-615-CAT-2 77-8477-615	\$0.00	\$4,000.00	\$0.00	\$4,000.00
('EACH' ITEM): WATER SERVICE TRANSFER, COPPER, 1-IN, SAME SIDE					
#6 - 2525-0000100	77-8477-615-CAT-1 77-8477-615-CAT-1 77-8477-615	\$26,164.79	\$32,832.46	\$0.00	\$0.00
TRAFFIC SIGNALIZATION					
		Totals:	\$26,164.79	\$58,873.55	\$0.00 \$24,181.09

Summary

Current Approved Work:	\$45,960.00	Approved Work To Date:	\$1,667,049.71
Current Stockpile Advancement:	\$26,164.79	Stockpile Advancement To Date:	\$58,873.55
Current Stockpile Recovery:	\$0.00	Stockpile Recovery To Date:	\$24,181.09
Current Retainage:	\$0.00	Retainage To Date:	\$30,000.00
Current Retainage Released:	\$0.00	Retainage Released To Date:	\$0.00
Current Liquidated Damages:	\$0.00	Liquidated Damages To Date:	\$0.00
Current Adjustment:	\$0.00	Adjustments To Date:	\$0.00
Current Payment:	\$72,124.79	Payments To Date:	\$1,671,742.17
Previous Payment:	\$285,651.08	Previous Payments To Date:	\$1,599,617.38

Funding Details

77-8477-615-CAT-1 77-8477-615-CAT-1 77-8477-615:	\$45,960.00
77-8477-615-CAT-2 77-8477-615-CAT-2 77-8477-615:	\$0.00
77-8477-615-CAT-3 NON-PARTICIPATING:	\$0.00
Current Payment:	\$45,960.00

77-8477-615-CAT-1 77-8477-615-CAT-1 77-8477-615 To Date:	\$1,307,234.71
77-8477-615-CAT-2 77-8477-615-CAT-2 77-8477-615 To Date:	\$359,815.00
77-8477-615-CAT-3 NON-PARTICIPATING To Date:	\$0.00
Payments To Date:	\$1,667,049.71

CONTRACTOR'S CERTIFICATION:

Contractor certifies that to the best of Contractor's knowledge, information and belief, the Work covered by this Payment Application has been completed in accordance with the Contract Documents, that all amounts have been paid by Contractor for Work for which payments were issued and payments received from the City of Windsor Heights, and that the current payment applied herein is now due.

By: _____ Date: _____

ENGINEER'S CERTIFICATION:

In accordance with the Contract Documents, based on on-site observations and the data comprising this Payment Application, the Construction Project Manager certifies to the City of Windsor Heights that to the best of the Construction Project Manager's knowledge, information, and belief, the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and Contractor is entitled to payment of Amount Certified.

AMOUNT CERTIFIED: \$ _____

By: _____ Date: _____

CITY OF WINDSOR HEIGHTS REVIEW / APPROVAL:

By: _____ Date: _____

Doc Express® Document Signing History

Contract: 77-8477-615 Document: payment-7-20241205

This document is in the process of being signed by all required signatories using the Doc Express® service. Following are the signatures that have occurred so far.

Date	Signed By
12/06/2024	Logan Petersen Absolute Concrete Construction Inc. Electronic Signature (Approved by Contractor (Optional))
12/10/2024	Justin Ernst Bolton & Menk, Inc. - Iowa Electronic Signature (Recommended by Engineer)
	(Approved by PIRC (when applicable))



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Plagge, City Administrator

SUBJECT: Approve Acceptance of Payments To Complete Plat Of Surveys and Property Transfers Along North Walnut Creek

GENERAL INFORMATION

Four property owners have provided the \$4,400 payment to complete the Plat of Survey, easements and legal documents necessary complete the land transfer of City owned property along North Walnut Creek. This action accepts their payment in order to complete this work.

The properties that have made payment are: 7811 Marilyn Drive, 7901 Marilyn Drive, 7711 Marilyn Drive and 7817 Marilyn Drive. Three properties with encroachments remain outstanding and under discussion.

ATTACHMENTS

None



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Rachelle Swisher, Finance Director

SUBJECT: Approve FY24 Annual Finance Report

GENERAL INFORMATION

ATTACHMENTS

1. FY24 AFR

STATE OF IOWA 2024 FINANCIAL REPORT FISCAL YEAR ENDED JUNE 30, 2024 CITY OF WINDSOR HEIGHTS, IOWA DUE: December 1, 2024	
	16207701500000
	CITY OF WINDSOR HEIGHTS
	1145 66th ST STE 1
	WINDSOR HEIGHTS IA 50324-1705
	POPULATION: 5252

NOTE - The information supplied in this report will be shared by the Iowa State Auditor's Office, the U.S. Census Bureau, various public interest groups, and State and federal agencies.

ALL FUNDS				
	Governmental (a)	Proprietary (b)	Total Actual (c)	Budget (d)
Revenues and Other Financing Sources				
Taxes Levied on Property	3,639,837		3,639,837	3,600,162
Less: Uncollected Property Taxes-Levy Year	0		0	0
Net Current Property Taxes	3,639,837		3,639,837	3,600,162
Delinquent Property Taxes	0		0	0
TIF Revenues	1,903,358		1,903,358	1,530,000
Other City Taxes	1,388,931	0	1,388,931	1,155,235
Licenses and Permits	388,003	0	388,003	290,500
Use of Money and Property	754,638	0	754,638	100,105
Intergovernmental	842,991	0	842,991	3,158,782
Charges for Fees and Service	506,144	721,557	1,227,701	1,364,000
Special Assessments	0	0	0	0
Miscellaneous	111,482	0	111,482	272,750
Other Financing Sources	8,538,165	0	8,538,165	10,110,000
Transfers In	4,838,675	102,624	4,941,299	2,188,499
Total Revenues and Other Sources	22,912,224	824,181	23,736,405	23,770,033
Expenditures and Other Financing Uses				
Public Safety	3,453,453		3,453,453	3,840,495
Public Works	800,968		800,968	918,984
Health and Social Services	0		0	0
Culture and Recreation	367,249		367,249	432,835
Community and Economic Development	19,075		19,075	286,372
General Government	1,020,769		1,020,769	1,027,245
Debt Service	1,524,908		1,524,908	1,525,109
Capital Projects	4,075,317		4,075,317	18,496,223
Total Governmental Activities Expenditures	11,261,739	0	11,261,739	26,527,263
BUSINESS TYPE ACTIVITIES		488,725	488,725	702,894
Total All Expenditures	11,261,739	488,725	11,750,464	27,230,157
Other Financing Uses	0	0	0	
Transfers Out	4,941,299	0	4,941,299	2,188,499
Total All Expenditures/and Other Financing Uses	16,203,038	488,725	16,691,763	29,418,656
Excess Revenues and Other Sources Over (Under) Expenditures/and Other Financing Uses	6,709,186	335,456	7,044,642	-5,648,623
Beginning Fund Balance July 1, 2023	14,167,956	1,982,864	16,150,820	13,780,271
Ending Fund Balance June 30, 2024	20,877,142	2,318,320	23,195,462	8,131,648

NOTE - These balances do not include the following, which were not budgeted and are not available for city operations:

Non-budgeted Internal Service Funds	Pension Trust Funds
Private Purpose Trust Funds	Agency Funds

Indebtedness at June 30, 2024	Amount	Indebtedness at June 30, 2024	Amount
General Obligation Debt	17,715,000	Other Long-Term Debt	0
Revenue Debt	0	Short-Term Debt	0
TIF Revenue Debt	0		
		General Obligation Debt Limit	25,924,617

CERTIFICATION

The forgoing report is correct to the best of my knowledge and belief

	Publication 11/25/2024
Signature of Preparer	Phone Number 515-279-3662
Printed name of Preparer Rachelle Swisher	
	Date Signed
Signature of Mayor or Mayor Pro Tem (Name and Title)	

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CITY OF WINDSOR HEIGHTS
REVENUE AND OTHER FINANCING SOURCES FOR YEAR ENDED JUNE 30, 2024

NON-GAAP/CASH BASIS

Item Description	General (a)	Special Revenue (b)	TIF Special Revenue (c)	Debt Service (d)	Capital Projects (e)	Permanent (f)	Total Governmental (a) through (f) (g)	Proprietary (h)	Grand Total (Sum of (g) and (h)) (i)	
Section A - Taxes	1									1
Taxes levied on property	2	2,263,907	534,092	841,838			3,639,837		3,639,837	2
Less: Uncollected Property Taxes - Levy Year	3						0		0	3
Net Current Property Taxes	4	2,263,907	534,092	841,838	0	0	3,639,837		3,639,837	4
Delinquent Property Taxes	5						0		0	5
Total Property Tax	6	2,263,907	534,092	841,838	0	0	3,639,837		3,639,837	6
TIF Revenues	7		1,903,358				1,903,358		1,903,358	7
Other City Taxes										
Utility Tax Replacement Excise Taxes	8	9,429	2,219	12,478			24,126		24,126	8
Utility Franchise Tax (Chapter 364.2, Code of Iowa)	9						0		0	9
Parimutuel Wager Tax	10						0		0	10
Gaming Wager Tax	11						0		0	11
Mobile Home Tax	12						0		0	12
Hotel / Motel Tax	13	16,326					16,326		16,326	13
Other Local Option Taxes	14		1,348,479				1,348,479		1,348,479	14
Total Other City Taxes	15	25,755	1,350,698	12,478	0	0	1,388,931	0	1,388,931	15
Section B - Licenses and Permits	16	388,003					388,003		388,003	16
Section C - Use of Money and Property	17									17
Interest	18	747,970	358				748,328		748,328	18
Rents and Royalties	19	6,310					6,310		6,310	19
Other Miscellaneous Use of Money and Property	20						0		0	20
	21						0		0	21
Total Use of Money and Property	22	754,280	358	0	0	0	754,638	0	754,638	22
Section D - Intergovernmental	24									24
Federal Grants and Reimbursements	26									26
Federal Grants	27	10,798					10,798		10,798	27
Community Development Block Grants	28						0		0	28
Housing and Urban Development	29						0		0	29
Public Assistance Grants	30						0		0	30
Payment in Lieu of Taxes	31						0		0	31
	32						0		0	32
Total Federal Grants and Reimbursements	33	10,798	0	0	0	0	10,798	0	10,798	33

CITY OF WINDSOR HEIGHTS
REVENUE AND OTHER FINANCING SOURCES FOR YEAR ENDED JUNE 30, 2024

NON-GAAP/CASH BASIS

Item Description	General (a)	Special Revenue (b)	TIF Special Revenue (c)	Debt Service (d)	Capital Projects (e)	Permanent (f)	Total Governmental (a) through (f) (g)	Proprietary (h)	Grand Total (Sum of (g) and (h)) (i)	
Section D - Intergovernmental - Continued	41									41
State Shared Revenues	43									43
Road Use Taxes	44	741,858					741,858		741,858	44
Other state grants and reimbursements	48									48
State grants	49	54,440					54,440		54,440	49
Iowa Department of Transportation	50						0		0	50
Iowa Department of Natural Resources	51						0		0	51
Iowa Economic Development Authority	52						0		0	52
CEBA grants	53						0		0	53
C&I Replacement and Tier I Business Tax Replacement	54	12,500	92	9,620			22,212		22,212	54
	55						0		0	55
	56						0		0	56
	57						0		0	57
	58						0		0	58
	59						0		0	59
Total State	60	54,440	92	9,620	0	0	818,510	0	818,510	60
Local Grants and Reimbursements										
County Contributions	63						0		0	63
Library Service	64						0		0	64
Township Contributions	65						0		0	65
Fire/EMT Service	66	13,683					13,683		13,683	66
	67						0		0	67
	68						0		0	68
	69						0		0	69
Total Local Grants and Reimbursements	70	13,683	0	0	0	0	13,683	0	13,683	70
Total Intergovernmental (Sum of lines 33, 60, and 70)	71	78,921	754,358	9,620	0	0	842,991	0	842,991	71
Section E - Charges for Fees and Service	72									72
Water	73						0		0	73
Sewer	74						0		0	74
Electric	75						0		0	75
Gas	76						0		0	76
Parking	77						0		0	77
Airport	78						0		0	78
Landfill/garbage	79						0	339,164	339,164	79
Hospital	80						0		0	80

CITY OF WINDSOR HEIGHTS
REVENUE AND OTHER FINANCING SOURCES FOR YEAR ENDED JUNE 30, 2024

NON-GAAP/CASH BASIS

Item Description	General (a)	Special Revenue (b)	TIF Special Revenue (c)	Debt Service (d)	Capital Projects (e)	Permanent (f)	Total Governmental (a) through (f) (g)	Proprietary (h)	Grand Total (Sum of (g) and (h)) (i)	
Section E - Charges for Fees and Service - Continued	81									81
Transit	82						0		0	82
Cable TV	83						0		0	83
Internet	84						0		0	84
Telephone	85						0		0	85
Housing Authority	86						0		0	86
Storm Water	87						0	382,393	382,393	87
Other:	88									88
Nursing Home	89						0		0	89
Police Service Fees	90	2,455	11,543				13,998		13,998	90
Prisoner Care	91						0		0	91
Fire Service Charges	92	1,025					1,025		1,025	92
Ambulance Charges	93	376,518					376,518		376,518	93
Sidewalk Street Repair Charges	94						0		0	94
Housing and Urban Renewal Charges	95						0		0	95
River Port and Terminal Fees	96						0		0	96
Public Scales	97						0		0	97
Cemetery Charges	98						0		0	98
Library Charges	99						0		0	99
Park, Recreation, and Cultural Charges	100	71,478			17,870		89,348		89,348	100
Animal Control Charges	101						0		0	101
REFUNDS/REIMBURSEMENTS	102		24,587		668		25,255		25,255	102
	103						0		0	103
Total Charges for Service	104	451,476	36,130	0	18,538	0	506,144	721,557	1,227,701	104
Section F - Special Assessments	106						0		0	106
Section G - Miscellaneous	107									107
Contributions	108	10,485					10,485		10,485	108
Deposits and Sales/Fuel Tax Refunds	109						0		0	109
Sale of Property and Merchandise	110	15					15		15	110
Fines	111	30,919					30,919		30,919	111
Internal Service Charges	112						0		0	112
REFUNDS/REIMBURSEMENTS	113	70,063					70,063		70,063	113
	114						0		0	114
	115						0		0	115
	116						0		0	116
	117						0		0	117
	118						0		0	118
	119						0		0	119
Total Miscellaneous	120	111,482	0	0	0	0	111,482	0	111,482	120

CITY OF WINDSOR HEIGHTS
REVENUE AND OTHER FINANCING SOURCES FOR YEAR ENDED JUNE 30, 2024

NON-GAAP/CASH BASIS

Item Description	General (a)	Special Revenue (b)	TIF Special Revenue (c)	Debt Service (d)	Capital Projects (e)	Permanent (f)	Total Governmental of (a) through (f) (g)	Proprietary (h)	Grand Total (Sum of (g) and (h)) (i)	
Total All Revenues (Sum of lines 6, 7, 15, 16, 22, 71, 104, 106, and 120)	121 4,073,824	2,675,636	1,903,450	863,936	18,538	0	9,535,384	721,557	10,256,941	121
Section H - Other Financing Sources	123									123
Proceeds of capital asset sales	124						0		0	124
Proceeds of long-term debt (Excluding TIF internal borrowing)	125				8,538,165		8,538,165		8,538,165	125
Proceeds of anticipatory warrants or other short-term debt	126						0		0	126
Regular transfers in and interfund loans	127 80,307	103,185		23,172	3,948,532		4,155,196	102,624	4,257,820	127
Internal TIF loans and transfers in	128			683,479			683,479		683,479	128
	129						0		0	129
	130						0		0	130
Total Other Financing Sources	131 80,307	103,185	0	706,651	12,486,697	0	13,376,840	102,624	13,479,464	131
Total Revenues Except for Beginning Balances (Sum of lines 121 and 131)	132 4,154,131	2,778,821	1,903,450	1,570,587	12,505,235	0	22,912,224	824,181	23,736,405	132
Beginning Fund Balance July 1, 2023	134 2,526,925	3,143,163	375,159	450,403	7,672,306		14,167,956	1,982,864	16,150,820	134
Total Revenues and Other Financing Sources (Sum of lines 132 and 134)	136 6,681,056	5,921,984	2,278,609	2,020,990	20,177,541	0	37,080,180	2,807,045	39,887,225	136

CITY OF WINDSOR HEIGHTS
EXPENDITURES AND OTHER FINANCING USES FOR FISCAL YEAR ENDED JUNE 30, 2024

NON-GAAP/CASH BASIS

Item Description	Line	General (a)	Special Revenue (b)	TIF Special Revenue (c)	Debt Service (d)	Capital Projects (e)	Permanent (f)	Total Governmental (Sum of (f) through (g))	Proprietary (h)	Grand Total (Sum of col. (g)) (i)	Line
Section A - Public Safety	1										1
Police Department/Crime Prevention	2	1,757,798	440,516					2,198,314		2,198,314	2
Jail	3							0		0	3
Emergency Management	4	9,777						9,777		9,777	4
Flood control	5							0		0	5
Fire Department	6	213,679	200,620					414,299		414,299	6
Ambulance	7	680,842	43,616					724,458		724,458	7
Building Inspections	8	103,064						103,064		103,064	8
Miscellaneous Protective Services	9							0		0	9
Animal Control	10	3,541						3,541		3,541	10
Other Public Safety	11							0		0	11
	12							0		0	12
	13							0		0	13
Total Public Safety	14	2,768,701	684,752		0	0	0	3,453,453		3,453,453	14
Section B - Public Works	15										15
Roads, Bridges, Sidewalks	16		600,823					600,823		600,823	16
Parking Meter and Off-Street	17							0		0	17
Street Lighting	18		45,884					45,884		45,884	18
Traffic Control Safety	19							0		0	19
Snow Removal	20		141,571					141,571		141,571	20
Highway Engineering	21							0		0	21
Street Cleaning	22							0		0	22
Airport (if not an enterprise)	23							0		0	23
Garbage (if not an enterprise)	24							0		0	24
Other Public Works	25		12,690					12,690		12,690	25
	26							0		0	26
	27							0		0	27
Total Public Works	28	0	800,968		0	0	0	800,968		800,968	28
Section C - Health and Social Services	29										29
Welfare Assistance	30							0		0	30
City Hospital	31							0		0	31
Payments to Private Hospitals	32							0		0	32
Health Regulation and Inspections	33							0		0	33
Water, Air, and Mosquito Control	34							0		0	34
Community Mental Health	35							0		0	35
Other Health and Social Services	36							0		0	36
	37							0		0	37
	38							0		0	38
Total Health and Social Services	39	0	0		0	0	0	0		0	39
Section D - Culture and Recreation	40										40
Library Services	41	65,564						65,564		65,564	41
Museum, Band, Theater	42							0		0	42
Parks	43	133,266	6,612					139,878		139,878	43
Recreation	44	148,338	1,661					149,999		149,999	44
Cemetery	45							0		0	45
Community Center, Zoo, Marina, and Auditorium	46	11,808						11,808		11,808	46
Other Culture and Recreation	47							0		0	47
	48							0		0	48
	49							0		0	49
Total Culture and Recreation	50	358,976	8,273		0	0	0	367,249		367,249	50

CITY OF WINDSOR HEIGHTS
EXPENDITURES AND OTHER FINANCING USES FOR FISCAL YEAR ENDED JUNE 30, 2024 -- Continued

NON-GAAP/CASH BASIS

Item description	Line	General (a)	Special Revenue (b)	TIF Special Revenue (c)	Debt Service (d)	Capital Projects (e)	Permanent (f)	Total Governmental cols. (a) through (f) (g)	Proprietary (h)	Grand Total (Sum of col. (g) (i)	Line
Section E - Community and Economic Development	51										51
Community beautification	52							0		0	52
Economic development	53	368						368		368	53
Housing and urban renewal	54	18,707						18,707		18,707	54
Planning and zoning	55							0		0	55
Other community and economic development	56							0		0	56
TIF Rebates	57							0		0	57
	58							0		0	58
Total Community and Economic Development	59	19,075	0	0	0	0	0	19,075		19,075	59
Section F - General Government	60										60
Mayor, Council and City Manager	61	139,743	4,316					144,059		144,059	61
Clerk, Treasurer, Financial Administration	62	738,548	97,579					836,127		836,127	62
Elections	63	1,503						1,503		1,503	63
Legal Services and City Attorney	64	39,080						39,080		39,080	64
City Hall and General Buildings	65							0		0	65
Tort Liability	66							0		0	66
Other General Government	67							0		0	67
	68							0		0	68
	69							0		0	69
Total General Government	70	918,874	101,895		0	0	0	1,020,769		1,020,769	70
Section G - Debt Service	71				1,524,908			1,524,908		1,524,908	71
	72							0		0	72
	73							0		0	73
Total Debt Service	74	0	0	0	1,524,908	0	0	1,524,908		1,524,908	74
Section H - Regular Capital Projects - Specify	75										75
	76					4,075,317		4,075,317		4,075,317	76
	77							0		0	77
Subtotal Regular Capital Projects	78	0	0	0	0	4,075,317	0	4,075,317		4,075,317	78
TIF Capital Projects - Specify	79										79
	80							0		0	80
	81							0		0	81
Subtotal TIF Capital Projects	82	0	0	0	0	0	0	0		0	82
Total Capital Projects	83	0	0	0	0	4,075,317	0	4,075,317		4,075,317	83
Total Governmental Activities Expenditures	84	4,065,626	1,595,888	0	1,524,908	4,075,317	0	11,261,739		11,261,739	84
(Sum of lines 14, 28, 39, 50, 59, 70, 74, 83)	85										85

TIF Rebates are expended out of the TIF Special Revenue Fund within the Community and Economic Development program's activity "Other"

CITY OF WINDSOR HEIGHTS
EXPENDITURES AND OTHER FINANCING USES FOR FISCAL YEAR ENDED JUNE 30, 2024 -- Continued

NON-GAAP/CASH BASIS

Item description	Line	General (a)	Special Revenue (b)	TIF Special Revenue (c)	Debt Service (d)	Capital Projects (e)	Permanent (f)	Total Governmental (Sum of cols. (a) through (f)) (g)	Proprietary (h)	Grand Total (Sum of col. (g)) (i)	Line
Section I - Business Type Activities	87										87
Water - Current Operation	88									0	88
Capital Outlay	89									0	89
Debt Service	90									0	90
Sewer and Sewage Disposal - Current Operation	91								7,327	7,327	91
Capital Outlay	92									0	92
Debt Service	93									0	93
Electric - Current Operation	94									0	94
Capital Outlay	95									0	95
Debt Service	96									0	96
Gas Utility - Current Operation	97									0	97
Capital Outlay	98									0	98
Debt Service	99									0	99
Parking - Current Operation	100									0	100
Capital Outlay	101									0	101
Debt Service	102									0	102
Airport - Current Operation	103									0	103
Capital Outlay	104									0	104
Debt Service	105									0	105
Landfill/Garbage - Current operation	106								370,430	370,430	106
Capital Outlay	107									0	107
Debt Service	108									0	108
Hospital - Current Operation	109									0	109
Capital Outlay	110									0	110
Debt Service	111									0	111
Transit - Current Operation	112									0	112
Capital Outlay	113									0	113
Debt Service	114									0	114
Cable TV, Telephone, Internet - Current Operation	115									0	115
Capital Outlay	116									0	116
Housing Authority - Current Operation	117									0	117
Capital Outlay	118									0	118
Debt Service	119									0	119
Storm Water - Current Operation	120								110,968	110,968	120
Capital Outlay	121									0	121
Debt Service	122									0	122
Other Business Type - Current Operation	123									0	123
Capital Outlay	124									0	124
Debt Service	125									0	125
Internal Service Funds - Specify	126									0	126
	127									0	127
	128									0	128
Total Business Type Activities	129								488,725	488,725	129

CITY OF WINDSOR HEIGHTS
EXPENDITURES AND OTHER FINANCING USES FOR FISCAL YEAR ENDED JUNE 30, 2024 -- Continued

NON-GAAP/CASH BASIS

Item description	Line	General (a)	Special Revenue (b)	TIF Special Revenue (c)	Debt Service (d)	Capital Projects (e)	Permanent (f)	Total Governmental (Sum of cols. (a) through (f)) (g)	Proprietary (h)	Grand Total (Sum of col. (g) (i))	Line
Subtotal Expenditures (Sum of lines 84 and 129)	130	4,065,626	1,595,888	0	1,524,908	4,075,317	0	11,261,739	488,725	11,750,464	130
Section J - Other Financing Uses Including Transfers Out	131										131
Regular transfers out	132	634,730	536,000			3,087,090		4,257,820		4,257,820	132
Internal TIF loans/repayments and transfers out	133			683,479				683,479		683,479	133
	134							0		0	134
Total Other Financing Uses	135	634,730	536,000	683,479	0	3,087,090	0	4,941,299	0	4,941,299	135
Total Expenditures and Other Financing Uses (Sum of lines 130 and 135)	136	4,700,356	2,131,888	683,479	1,524,908	7,162,407	0	16,203,038	488,725	16,691,763	136
	137										137
Ending fund balance June 30, :	138										138
Governmental:	139										139
Nonspendable	140							0		0	140
Restricted	141		3,790,096	1,595,130	496,082			5,881,308		5,881,308	141
Committed	142					13,015,134		13,015,134		13,015,134	142
Assigned	143							0		0	143
Unassigned	144	1,980,700						1,980,700		1,980,700	144
Total Governmental	145	1,980,700	3,790,096	1,595,130	496,082	13,015,134	0	20,877,142		20,877,142	145
Proprietary	146								2,318,320	2,318,320	146
Total Ending Fund Balance June 30,	147	1,980,700	3,790,096	1,595,130	496,082	13,015,134	0	20,877,142	2,318,320	23,195,462	147
Total Requirements (Sum of lines 136 and 147)	148	6,681,056	5,921,984	2,278,609	2,020,990	20,177,541	0	37,080,180	2,807,045	39,887,225	148

OTHER P10

Part III Intergovernmental Expenditures Please report below expenditures made to the State or to other local governments on a reimbursement or cost sharing basis. Include these expenditures in part II. Enter amount.

Purpose		Amount paid to other local governments		Amount paid to State	
Correction					
Health					
Highways				71,413	
Transit Subsidies					
Libraries		65,563			
Police protection					
Sewerage		388			
Sanitation		246,191			
All other		75,768			

Part IV

Wages & Salaries Report here the total salaries and wages paid to all employees of your government before deductions of social security, retirement, etc. Include also salaries and wages paid to employees of any utility owned and operated by your government, as well as salaries and wages of municipal employees charged to construction projects.

YOU ARE REQUIRED TO ENTER SALARY DOLLARS IN THE Amount areas FOR SALARIES AND WAGES PAID				Amount
				2,927,299

Total Salaries and Wages Paid**Part V Debt Outstanding, Issued, and Retired**

Transit subsidies

A. Long-Term Debt

Debt During the Fiscal Year		Debt Outstanding JUNE 30, 2024						
Purpose	Line	Debt Outstanding JULY 1, 2023	Issued	Retired	General Obligation	TIF Revenue	Revenue	Other
Water Utility	1.							
Sewer Utility	2.							
Electric Utility	3.							
Gas Utility	4.							
Transit-Bus	5.							
Industrial Revenue	6.							
Mortgage Revenue	7.							
TIF Revenue	8.							
Other Purposes / Miscellaneous	9.							
GO	10.	10,660,000	8,325,000	1,270,000	17,715,000			255,109
Parking	11.							
Airport	12.							
Stormwater	13.							
Section 108	14.							
Total Long-Term		10,660,000	8,325,000	1,270,000	17,715,000	0	0	255,109

B. Short-Term Debt Amount**Outstanding as of July 1, 2023****Outstanding as of JUNE 30, 2024**

DEBT LIMITATION FOR GENERAL OBLIGATIONS

Part VI Actual valuation -- January 1, 2022

Part VII CASH AND INVESTMENT ASSETS AS OF JUNE 30, 2024

Type of asset	Amount				
	Bond and interest funds (a)	Bond construction funds (b)	Pension/retirement funds (c)	All other Funds (d)	Total (e)
	14,870,462	8,325,000			23,195,462
Cash and investments - Include cash on hand, CD's, time, checking and savings deposits, Federal securities, Federal agency securities, State and local government securities, and all other securities. Exclude value of real property.					
If you budget on a NON-GAAP CASH BASIS, the amount in the Total above SHOULD EQUAL the above summed amounts on the sheet All Funds P1: Ending fund balance, column C PLUS the amounts in the shaded Note area.					



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM:

SUBJECT: Approve Resolution No. 2024-69 - A Resolution Approving Balance Transfers
for the City of Windsor Heights, IA

GENERAL INFORMATION

ATTACHMENTS

1. Resolution No. 2024-69 A Resolution Approving Balance Transfers

Resolution No. 2024-69

**A RESOLUTION APPROVING BALANCE
TRANSFERS FOR THE CITY OF WINDSOR HEIGHTS, IOWA**

WHEREAS, the Windsor Heights City Council approves inter-fund transfers as needed for budget balancing purposes; and

NOW THEREFORE, BE RESOLVED, by the City Council of the City of Windsor Heights, Iowa, that the transfers outlined below are hereby approved with an effective date of 12/16/2024 and the Finance Director is authorized to make the transfers in accord with this resolution.

From: Colby Park Project
To: General Fund – ATE Funds
Amount: \$310,000

From: Colby Park Project
To: Future Street Projects
Amount: \$1,268,000

Passed and approved this 16th day of December 2024

Mike Jones, Mayor

Attest: _____
Adam Strait, City Clerk



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM:

SUBJECT: Approve Tobacco License - Casey's #4372 - 6961 UNIVERSITY AVE

GENERAL INFORMATION

ATTACHMENTS

1. Caseys #4372 Tobacco License Application
2. Caseys #4372 Tobacco Suppliers

**Tobacco
Licensing**[<](#) **CITY OF WINDSOR HEIGHTS**

Retail Tobacco License Review

CITY OF WINDSOR HEIGHTS

1009378802

[Application Information](#)

Legal Ownership Information

Name of sole proprietor, partnership, corporation, LLC, or LLP	: CASEYS MARKETING COMPANY
Type of ownership	: Corporation
Primary office address	: 1 SE CONVENIENCE BLVD ANKENY IA 50021-9672
Phone Number	: 515-381-4090
Fax	: 515-446-6303
Email	: LICENSINGTEAM@CASEYS.COM

Application Information

Sales and Use Permit Number	: 304605425
Location Name	: CASEY'S #4372
Location Phone Number	: 515-381-4090
Location Address	: 6961 UNIVERSITY AVE WINDSOR HEIGHTS IA 50324-1532
Location Mailing Address	: 1 SE CONVENIENCE BLVD ANKENY IA 50021- 9672

Renewal: : No

Start Date : 01-Jan-2025

End Date : 30-Jun-2025

License Fee : 37.50

Types of Sales : Over the Counter

Type of Establishment : Convenience store/gas station

Types of Products Sold : Cigarettes, Tobacco, Vapor Products, Alternative Nicotine Products

Do you intend to make retail sales to ultimate consumers? : Yes

Do you have other permits issued under Iowa Code chapter 453A at this retail location? If yes, provide permit number(s) in the next step: : No

Corporate Officers

Title	Name	Address
TREASURER	LARSEN, ERIC	4407 NW 5TH ST ANKENY IA 50023-8841
SECRETARY	FABER, SCOTT	6749 CARDIFF CT JOHNSTON IA 50131-2783
PRESIDENT	JAMES, SAMUEL	2501 SE 19TH CT ANKENY IA 50021-7131
VICE PRESIDENT	JOHNSON, BRIAN	9129 NW 73RD CIR JOHNSTON IA 50131-4836
ASSISTANT SECRETARY	BEECH, DOUGLAS	729 NE BROOK HAVEN DR ANKENY IA 50021-4529

Suppliers List

File Name	View File
-----------	-----------

File Name

View File

tobacco suppliers.pdf

[View File](#)

Decision

Select the decision of whether you approve or deny this permit application.

Iowa Department of Revenue will be issuing a permit number if this application is approved. However, the local authority has the option to also issue a permit number. If the local authority decides to issue a local permit number, it can be entered in the "Local Permit Number" field. Otherwise, only the state-issued permit number will appear on the permit.

Select a Decision *



Your online session will timeout after 30 minutes of inactivity. All unsaved information will be lost.

Resources

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Tobacco Supplier	Address
RJ REYNOLDS TOBACCO COMPANY	401 N MAIN ST,WINSTON SALEM, NC 27101
RJ REYNOLDS VAPOR COMPANY	PO BOX 906,WINSTON-SALEM, NC 27102
American Snuff	813 RIDGE LAKE BLVD,MEMPHIS, TN 38120
US Smokeless	6601 W BROAD ST,RICHMOND, VA 23230
National Tobacco	5201 INTERCHANGE WAY,LOUISVILLE, KY 40229
Juul Labs	1000 F ST NW 8TH FLOOR,WASHINGTON, DC 20004
CHEYENNE INTERNATIONAL	701 S BATTLEGROUND AVE,GROVER, NC 28073
FARMERS TOBACCO CO	PO BOX 98,CYNTHIANA, KY 41031
HELIX INNOVATIONS LLC	6603 WEST BROAD ST,RICHMOND, VA 23230
INTER CONTINENTAL CIGAR CORPORATION	3251 COMMERCE PKWY,MIRAMAR, FL 33025
ITG BRANDS, LLC	714 GREEN VALLEY RD,GREENSBORO, NC 27408
ITG CIGARS INC	714 GREEN VALLEY RD,GREENSBORO, NC 27408
FONTEM US INC	1100 S TRYON ST., STE 350,CHARLOTTE, NC 28203
KRETEK INTERNATIONAL INC	5449 ENDEAVOUR CT,MOORPARK, CA 93021
LIGGETT VECTOR BRANDS LLC	3800 PARAMOUNT PKWY STE 250,MORRISVILLE, NC 27560
MODORAL BRANDS INC	401 N MAIN ST,WINSTON-SALEM, NC 2710
NJOY LLC	9977 N 90TH ST STE 160,SCOTTSDALE, AZ 8525
PHILIP MORRIS USA INC	6601 W BROAD ST,RICHMOND, VA 23230
PREMIER MANUFACTURING INC	629 CEPI DR,CHESTERFIELD, MO 63005
REPUBLIC BRANDS LP	2301 RAVINE WAY,GLENVIEW, IL 60025
SANTA FE NATURAL TOBACCO COMPANY INC	ONE PLAZA LA PRENSA,SANTE FE, NM 8750
SCANDINAVIAN TOBACCO GROUP LANE LTD	2280 MOUNTAIN INDUSTRIAL BLVD,TUCKER, GA 30084
SHOW CIGARS INC	1551 N POWERLINE RD,POMPANO BEACH, FL 33069
SMOKEY MOUNTAIN	365 POST RD,DARIEN, CT 06820
SWEDISH MATCH NORTH AMERICA LLC	1021 E CARY ST STE 1600,RICHMOND, VA 23219
SWISHER INTERNATIONAL INC	459 E 16TH ST,JACKSONVILLE, FL 32206
ROGUE HOLDINGS	459 E 16TH ST,JACKSONVILLE, FL 32206
BIC USA INC	PO BOX 416552,BOSTON, MA 02241-6552
D D BEAN & SONS CO	



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Strait, City Clerk

SUBJECT: Approve Resolution No. 224-70 - A Resolution to Appoint a Member and
Alternate Member to the
Polk County 911 Service Board

GENERAL INFORMATION

ATTACHMENTS

1. Resolution No. 2024-70 911 Service Board Members

Resolution No. 2024-70

**Resolution to Appoint a Member and Alternate Member to the
Polk County 911 Service Board**

Whereas, the Polk County Joint 911 Service Board enables the orderly development, installation, and operation of 911 emergency telephone communications systems and other emergency 911 notification devices; and

Whereas, the Polk County Board of Supervisors shall maintain a Joint 911 Service Board; and

Whereas, each political subdivision having a public safety agency serving territory within the county/Service Area is entitled to voting membership on the Joint 911 Service Board; and

Whereas, the Joint 911 Service Board shall annually submit a listing of members to the State of Iowa; and

Whereas, the board members shall be the liaison between their political subdivision and the board.

Now, Therefore, Be It Resolved that Fire Chief James Mease be appointed as the primary member; and

Be it Further Resolved that Police Chief Pete Roth be appointed as an alternate member; and

Be It Further Resolved that the Member and Alternate Member attend the Board meetings on behalf of the City of Windsor Heights.

Passed and Approved this 16th Day of December, 2024.

Mike Jones, Mayor

Adam Strait, City Clerk



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Strait, City Clerk

SUBJECT: Approve Resolution No. 2024-71 - A Resolution to Appoint Members and Alternate Members to the Polk County Emergency Management Commission

GENERAL INFORMATION

ATTACHMENTS

1. Resolution No. 2024-71 EM Commission Member

Resolution No. 2024-71

Resolution to Appoint Members and Alternate Members to the Polk County Emergency Management Commission

Whereas, the county boards of supervisors and city councils in each county shall cooperate with the Iowa Homeland Security and Emergency Management Department to establish a local emergency management commission to carry out the provisions Iowa Code Chapter 29C; and

Whereas, the commission shall be composed of a member of the Board of Supervisors, the Sheriff, and the Mayor from each city within the county; and

Whereas, a commission member may designate an alternate to represent the designated entity; and

Whereas, for any activity related to approval or amendment of the Commission's budget as addressed in section 29C.17, subsection 2, or chapter 24 of the Code of Iowa, participation shall be by a commission member or a designated alternate that is an elected official from the same designated entity; and

Whereas, the commission members shall be the operations liaison officers between their jurisdiction and the commission; and

Whereas, the commission shall meet regularly to determine the mission of its agency and program and provide direction for the delivery of the emergency management services of planning, administration, coordination, training, and support for local governments and their departments; and

Whereas, the commission shall coordinate emergency services in the event of a disaster;

Now, Therefore, Be It Resolved that Mayor Mike Jones be appointed as the Emergency Management Commission Member; and

Be it Further Resolved that Councilor Susan Skeries be appointed as an Alternate Elected Member; and

Be it Further Resolved that Fire Chief James Mease and Police Chief Pete Roth be appointed as an Alternate Non-Elected Appointed Members; and

Be It Further Resolved that the Member and/or Alternate Member(s) attend the Commission meetings on behalf of the City of Windsor Heights.

Passed and Approved this 16th Day of December, 2024.

Mike Jones, Mayor

Adam Strait, City Clerk



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Strait, City Clerk

SUBJECT: Approve Resolution No. 2024-71 - A Resolution Appointing Commissioner And Alternate Commissioner To The Des Moines Area Regional Transit Authority ("Dart") For 2025

GENERAL INFORMATION

ATTACHMENTS

1. Resolution No. 2024-72 DART Appointments Resolution

RESOLUTION NO. 2024-71

**RESOLUTION APPOINTING COMMISSIONER AND ALTERNATE
COMMISSIONER TO THE DES MOINES AREA REGIONAL TRANSIT AUTHORITY
("DART") FOR 2025**

WHEREAS, the City of Windsor Heights proudly supports and participates in the governance of the Des Moines Area Regional Transit Authority ("DART"); and

WHEREAS, the Des Moines Area Regional Transit Authority is governed by a Board of Commissioners that consists of elected officials throughout the Des Moines Metro, one from each member government; and

WHEREAS, per the Substituted and Restated 28E Agreement, it is the responsibility of the Mayor to appoint both a Commissioner and Alternate Commissioner; and

WHEREAS, Mayor Jones appoints Councilor Joseph Jones to serve as Commissioner and Councilor Lauren Campbell serve as Alternate Commissioner.

NOW, THEREFORE, BE IT RESOLVED that Joseph Jones is appointed to serve as Commissioner and Councilor Lauren Campbell is appointed to serve as Alternate Commissioner to the Des Moines Area Regional Transit Authority for the 2025 calendar year.

Passed and Approved this 16th day of December, 2024.

Mike Jones, Mayor

Attest: Adam Strait, City Clerk



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Strait, City Clerk

SUBJECT: Approve Resolution No. 2024-73 - A Resolution Appointing Regular And Alternate Member Representatives To The Metropolitan Planning Organization (MPO) For 2025

GENERAL INFORMATION

ATTACHMENTS

1. Resolution No. 2024-73 MPO Resolution

RESOLUTION NO. 2024-73

**A RESOLUTION APPOINTING REGULAR AND ALTERNATE MEMBER
REPRESENTATIVES TO THE METROPOLITAN PLANNING ORGANIZATION (MPO)
FOR 2025**

WHEREAS, the City of Windsor Heights, Iowa, is a member community of the Metropolitan Planning Organization; and

WHEREAS, the City desires to appoint Mayor Mike Jones as the Primary Policy Committee representative of the MPO, and Councilor Michael Libbie as an alternate representative member to act as a designee when the regular representative is unable to attend a meeting(s); and

WHEREAS, the City desires to appoint City Engineer Justin Ernst as the Primary Technical Committee representative, and the City appoints Public Works Director Andy Larson as an alternate representative member to act as a designee when the regular representative is unable to attend a meeting(s); and

WHEREAS, the City desires to nominate Mayor Mike Jones to the Executive Committee representative; and

WHEREAS, in order to make the above appointment it is required that the Council approve such appointment by resolution.

NOW, THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF WINDSOR HEIGHTS, IOWA AS FOLLOWS:

Mayor Mike Jones is hereby appointed as the Primary Policy Committee representative of and Council Member Michael Libbie is appointed as an alternate representative of the MPO effective for calendar year 2025.

BE IT FURTHER RESOLVED that City Engineer Justin Ernst is hereby appointed as the Primary Technical Committee representative and Public Works Director Andy Larson is appointed as the alternate representative effective for calendar year 2025.

BE IT FURTHER RESOLVED that Mayor Mike Jones is hereby the City of Windsor Heights Executive Committee representative nominee effective for calendar year 2025.

Passed and Approved, this 16th day of December, 2024.

Mike Jones, Mayor

ATTEST: Adam Strait, City Clerk



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Strait, City Clerk

SUBJECT: Approve Resolution No. 2024-74 - A Resolution Approving Metro Waste Authority Primary Board And Alternate Board Appointments

GENERAL INFORMATION

ATTACHMENTS

1. Resolution No. 2024-74 A Resolution Approving Metro Waste Authority Primary Board and Alternate Board Appointments

RESOLUTION NO. 2024-74

**A RESOLUTION APPROVING METRO WASTE AUTHORITY PRIMARY
BOARD AND ALTERNATE BOARD APPOINTMENTS**

WHEREAS, the City of Windsor Heights, Iowa is a duly organized municipality within Polk County; and

WHEREAS, each year the Mayor shall appoint or reappoint individuals as members to various boards, commissions, and committees-including, but not limited to, the Metro Waste Authority.

NOW, THEREFORE BE IT HEREBY RESOLVED by the City of Windsor Heights City Council in session this 16th Day of December, 2024, that it hereby approves the Mayor's appointments of Susan Skeries as Primary Board Member and Threase Harms as Alternate Board Member.

Passed and Approved this 16th Day of December, 2024.

Mike Jones, Mayor

Adam Strait, City Clerk



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Strait, City Clerk

SUBJECT: Approve Resolution No. 2024-75 - A Resolution Approving Committee Appointments

GENERAL INFORMATION

ATTACHMENTS

1. Resolution No. 2024-75 A Resolution Approving Committee Appointments
2. Resolution No. 2024-75 Exhibit A

RESOLUTION NO. 2024-75

A RESOLUTION APPROVING COMMITTEE APPOINTMENTS

WHEREAS, the City of Windsor Heights, Iowa is a duly organized municipality within Polk County; and

WHEREAS, each year the Mayor shall appoint or reappoint individuals as members to various boards, commissions and committees-including, but not limited to, the attached list referred hereinto as “Exhibit A”

NOW, THEREFORE BE IT HEREBY RESOLVED by the City of Windsor Heights City Council in session this 16th Day of December, 2024, that it hereby approves the Mayor’s appointment of the individuals listed in Exhibit A.

Passed and Approved this 16th Day of December, 2024.

Mayor Mike Jones

Attest:

Adam Strait, City Clerk

Windsor Heights Master Committee List:

Regional Committee Representatives		
Committee	Primary	Alternate
BRAVO	Lauren Campbell	Joseph Jones
Convention & Visitors Bureau (Catch DSM)	Susan Skeries	Joseph Jones
DART	Joseph Jones	Lauren Campbell
Iowa Confluence Water Trails (ICON)	Michael Libbie	Threase Harms
Metro Waste Authority (MWA)	Susan Skeries	Threase Harms
Metro West Improvement (aka Housing)	Joseph Jones	Susan Skeries
Metropolitan Advisory Council (MAC)	Mike Jones & Threase Harms	Michael Libbie
Metropolitan Planning Organization (MPO)	Mike Jones	Michael Libbie
MPO Technical Committee	Justin Ernst	Jason Roberts
One Million Trees Steering Committee	Susan Skeries	N/A
Polk County 911 Service Board	James Mease	Pete Roth
Polk County Emergency Management (Elected)	Mike Jones	Susan Skeries
Polk County Emergency Management	Jim Mease	Pete Roth
Polk County Homeless Coordinating Council (HCC)	Joseph Jones	Susan Skeries
School District Liaison	Threase Harms	Lauren Campbell
Sister Cities Commission	Ricki King	N/A
Walnut Creek WMA	Andy Larson	Adam Plagge

Board of Adjustment		
Member	E-Mail	Term Expiration
Chaden Halfhill (Chair)	chaden@silentrivers.com	12/31/2025
John Villotti	villottij@gmail.com	12/31/2026
Carole Tillotson	caroletillotson@msn.com	12/31/2028
Paul Walter	paulmwalter@gmail.com	12/31/2028
Larry James Sr.	larryjamesr@gmail.com	12/21/2028

Purpose: The Board of Adjustment is responsible for administrative review of decisions made by the Zoning Administrator and to hear and decide on Conditional Use Permits, appeals, and requests for special exceptions and variances to the Windsor Heights Zoning Code. Terms are five years.

Planning & Zoning Commission		
Member	E-Mail	Term Expiration
Geoffrey Wood (Chair)	geoffinwindsorheights@gmail.com	12/31/2025
David Ferree	daferree@gmail.com	12/31/2027
Diane Foss	dianelfoss@gmail.com	12/31/2025
Georgie Libbie	georgielibbie@gmail.com	12/31/2025
Bob Bishop	mrb14u@earthlink.net	12/31/2027
Tyler Holtorf	holtorf.tyler@iconbuilt.com	12/31/2025
Donna Mueller	dmmueller@gmail.com	12/31/2026
Purpose: The Planning and Zoning Commission makes recommendations to the Windsor Heights City Council regarding land use, changes in zoning, and review of subdivision plans or plats. The Commission shall hold public hearings as required by law and make recommendations to the City Council on all matters relating to the Comprehensive Plan, zoning district map amendments, zoning ordinance text amendments, urban renewal area and other matters as provided in Chapter 414 of the Code of Iowa and the Windsor Heights Zoning Code that will best promote the health, safety, morals, order, convenience and general welfare of the City. Terms are five years.		

Personnel & Finance Committee		
Mike Jones	Threase Harms (Chair)	Joseph Jones
Director Rachelle Swisher	Clerk Adam Strait	Admin Adam Plagge
Purpose: The Personnel and Finance Committee reviews and makes recommendations on policies related to employee compensation and benefits, employment policies, financial reporting and policies and the City budget. The Committee meets at the call of the Chair or as directed by Council.		

Economic Development Committee		
Mike Jones	Joseph Jones	Michael Libbie (Chair)
Admin Adam Plagge	Chamber Rep (Justin/Tiffany)	<u>Zac Bales-Henry</u>
<u>Brian Sheriff (Colby)</u>	<u>Betty Ridout (BT)</u>	
Purpose: The Economic Development Committee researches and studies contemporary trends, identifies development opportunities and funding sources, develops and recommends		

economic development initiatives and strategies to the City Council, and assists in the development of an overall economic development plan. The Committee meets at the call of the Chair or as directed by Council.

Communications Committee		
Mike Jones	Threase Harms (Chair)	Michael Libbie
Clerk Adam Strait	Kurt Bowermaster	Admin Adam Plagge
Purpose: The Communications Committee reviews the City's communications plan and makes recommendations for improvement to the City Council. The Committee meets at the call of the chair or as directed by Council.		

Public Safety Committee		
Mike Jones	Lauren Campbell	Joseph Jones
Fire Chief James Mease (Chair)	Police Chief Pete Roth	<u>Anna Hyatt</u>
<u>Michael Stueckrath</u>	<u>Darren Skeries</u>	<u>Sarah Roemer</u>
Purpose: The Public Safety Committee works closely with staff to evaluate complex public safety related challenges and make recommendations related to those challenges to the full council. The Public Safety Committee also is briefed on the annual Public Safety budget request and other matters as requested. The Committee meets at the call of the Chair or as directed by Council.		

Public Works Committee		
Mike Jones	Susan Skeries	Michael Libbie
Director Jason Roberts	Sup. Andy Roberts (Chair)	<u>Dave Burgess</u>
<u>Sarah Roemer</u>		
Purpose: The Public Works Committee meets to review issues and initiatives focused on streets, parks, utilities and public facilities, and makes recommendations to the City Council. The Committee meets at the call of the Chair or as directed by Council.		

Community Events Committee		
Mike Jones	Susan Skeries (Chair)	Lauren Campbell
Admin Adam Plagge	Clerk Adam Strait	WH Foundation Rep.
Chamber Rep (Justin/Tiffany)	<u>Lauren Probst</u>	
Purpose: The Community Events Committee acts as a coordinating body of City, non-profit, business and citizen volunteers for community events offering recommendations on		

fundraising, event planning, and overall cultural asset building. The Committee meets at the call of the Chair or as directed by Council.

Colby Park Ad-Hoc Committee		
Lauren Campbell	Threase Harms	Geoff Wood
Celeste Egger	Gunnar Olson	WH Foundation Rep.
Admin Adam Plagge	Nate Weitzl (BMI)	Casey Byers (BMI)
Justin Ernst (BMI)	Natalie Jensen (BMI)	
Purpose: The Colby Park Ad-Hoc Committee is responsible for recommendations to Council regarding the updating and redesign of Colby Park, in accordance with approved budgets and the 2020 Parks Master Plan.		



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Plagge, City Administrator

SUBJECT: Approve 2025 Fee Schedule

GENERAL INFORMATION

Last year, the fee schedule underwent a comprehensive update, leaving only a few proposed revisions for this year:

1. Addition of a \$75 Vacant Property Registration Fee.
2. Revision of the Preliminary Site Plan Review Fee from \$300 plus other engineering costs to \$400, with additional charges for re-submittals and other engineering costs.
3. Alignment of the False Fire Alarm Fee with Clive's fee structure.
4. Addition of a \$100 Floodplain Permit Fee.
5. Minor increases to Hazmat Fees.
6. Other minor formatting adjustments and corrections.

With the forthcoming Code Update, additional fees will be incorporated into the Fee Schedule while being removed from the Code. However, these changes are deferred until the Code Update is complete to prevent conflicting information.

ATTACHMENTS

1. Fee Schedule 2025

City of Windsor Heights
Fee Schedule
Effective 1/1/2025

Public Safety	
REPORTS, COPIES, DIGITAL MEDIA, TESTS & RELEASES, PERMITS	
Copies - Public Records	Black/white \$.05 per single page copy exceeding 5 pages Color \$.50 per single page copy
Incident Report or Call for Service (CFS)	No charge < 30 minutes to produce
Accident Report	\$5.00
Media (audio/video)	Staff time, no charge < 30 minutes to produce \$5.00 per 8GB Flash Drive, or actual cost for larger storage devices
Vehicle Impound Release	\$20.00
Hourly rate for contract staff time or City Staff needed to produce or review documents	Actual cost of employee time if time involved exceeds 30 minutes
Fingerprinting per card	Two print cards: \$10.00 Resident \$20.00 non-resident. \$10.00 for each additional card.
Mailing or shipping a record	Billed at actual costs
PET LICENSE	
Pet License – spayed/neutered	\$20.00 per calendar year
Pet License – not spayed/neutered	\$30.00 per calendar year
Pet Unlicensed Delinquency Fee	Double original license fee (after April 1)
Disposition of Impounded Animal Fee	\$20.00 if not released from the pound or shelter
PERMITS	
Dance Hall Inspection Fee	\$50.00
Dance Hall Permit Fee	\$100.00 (inspection fee is credited to permit fee)
Temporary Noise Permit Fee	\$20.00 per day \$40.00 for over one day through one week \$75.00 permits over one week through one year
Peddler, Solicitor, Transient Merchant Fee	\$20.00 application fee 1 Day - \$20.00 1 Week - \$100.00 90 Day - \$500.00 \$25.00 per each additional peddler, etc.
Fire Department	
Rental Fees	
Rental Registration Fee (*Additional inspection fees required to be paid at time of registration)	\$35 - Single Family \$50 – Duplex \$150 Apartment
Rental Inspection Fee	\$100 Single Family Inspection \$125 Duplex -\$25 per additional living unit beyond two \$150 Apartment - \$22 per additional living unit beyond four If a property fails initial inspection, additional fees for the reinspection will apply and will be collected by the building inspector at the time of reinspection
Additional Fee if owner cannot be identified/reached and City must research and contact current tenant	\$50.00
Fire Dept Plan Review	

The Windsor Heights Fire Department requires Fire Protection System plan reviews to be conducted by a third party. Fees for any required third party review are not included within the City fee schedule.

Commercial/ Fire Code	
Initial Inspection/First Re-Inspection (performed 30 days after initial inspection)	\$0
Second Re-Inspection (performed 2 weeks after first re-inspection)	\$100.00
Third Re-Inspection (performed 2 weeks after second re-inspection)	\$200.00
Fourth Re-Inspection (performed 2 weeks after third re-inspection)	\$400.00
Fifth Re-Inspection (performed 2 weeks after fourth re-inspection)	\$800.00
Hazmat Fees	
Heavy Response Apparatus with 4 personnel (Engine, ladder, heavy rescue)	\$368.57*
Light Response Apparatus with 2 personnel (Tanker, brush truck, ambulance, staff car)	\$293.74*
Extra Response Personnel	\$28.41
Expended materials (foam, containment booms, sand, absorbent, etc.)and equipment repair and/or cleaning	Replacement Cost including shipping for expended materials, Cost (parts and labor) to include shipping for equipment repair and/or cleaning
*Minimum of one hour. Billed in 15-minute increments beyond the first hour. This fee schedule is based on Iowa Fire Service Annual Hazardous Materials Responses Fee Structure	
Ambulance Fees	
Basic Life Support (BLS) – Non-Emergent	\$590.00
Basic Life Support (BLS) - Emergent	\$695.00
Advanced Life Support (ALS) Non-Emergent	\$690.00
Advanced Life Support (ALS) – Emergent	\$807.00
Advanced Life Support (ALS) Level 2	\$1,065.00
Treat / No Transport	\$277.00
Critical Care Transport	\$1,254.00
Loaded Mileage Rate	\$13.80
Oxygen	\$30.00
Additional Attendant	\$50.00
ALS Supplies	\$50.00
BLS Supplies	\$50.00
IV Supplies	\$35.00
Intubation Supplies	\$25.00
Medications	
▪ Nitrogen Tablet	\$5.00
▪ Ativan/Lorazepam	\$10.00
▪ Oral Glucose, Zofran Iv	\$15.00
▪ Epinephrine, Fentanyl, Morphine Sulfate, Sodium Bicarbonate, Solu-Medrol, Versed	\$20.00
▪ D50w/Dextrose Inj	\$25.00
▪ Albuterol Noncompounded 1mg	\$30.00
▪ Narcan/Naloxone Per 1mg	

▪ Glucagon	\$250.00
Nuisance Alarms	
Alarms	\$0.00 First and Second false alarm during a calendar year \$75.00 Third false alarm within a calendar year \$100.00 Fourth false alarm within a calendar year \$150.00 Fifth and subsequent alarm within a calendar year \$500.00 Negligent false alarm
City Hall	
Copies	Black and White \$.05 per single page copy in excess of 5 pages Color \$.50 per single page copy
Hourly rate for contract staff time or City Staff need to produce or review documents	Actual cost of employee time if time involved exceeds thirty (30) minutes
Media (audio/video)	\$5.00 per 8GB
NSF Check Fee (All Departments)	\$30.00
Special Council Meeting	\$81 per Council member

BUILDING PERMITS	
TOTAL VALUATION	FEE
\$1.00 to \$500.00	\$75.00
\$501.00 to \$2,000.00	\$75.00 for the first \$500.00 + \$.2.75 for each additional \$100.00 or fraction thereof, to and including \$2,000
\$2,001.00 to \$25,000.00	\$116.25 for the first \$2,000 + \$12.50 for each additional \$1,000 or fraction thereof, to and including \$25,000
\$25,000.00 to \$50,000.00	\$391.25 for the first \$25,000 + \$9.00 for each additional \$1,000.00 or fraction thereof, to and including \$50,000
\$50,000.00 to \$100,000.00	\$616.25 for the first \$50,000.00 + \$6.25 for each additional \$1,000.00 or fraction thereof, to and including \$100,000
\$100,000.00 to \$500,000.00	\$928.75 for the first \$100,000.00 + \$5.00 for each additional \$1,000.00 or fraction thereof, to and including \$500,000
\$500,000.00 to \$1,000,000.00	\$2,928.75 for the first \$500,000.00 + \$4.25 for each additional \$1,000.00 or fraction thereof, to and including \$1,000,000
\$1,000,000.00 and up	\$5,053.75 for the first \$1,000,000.00 + \$2.75 for each additional \$1,000.00 or fraction thereof
Re-inspection fees	\$42.00/hour (1-hour minimum)
Commercial Plan Review	65% of permit fee
Temporary Certificate of Occupancy	\$250.00
Final Site Plan Review	\$250.00 + 65% of total building permit fee
Fire Department Commercial Building Pre Plan Fee	\$75.00
SUB-CONTRACTOR PERMITS (RESIDENTIAL)	
Mechanical	Flat Fee \$80.00
Plumbing	Flat Fee \$80.00
Electrical	Flat Fee \$80.00
SUB-CONTRACTOR PERMITS (COMMERCIAL)	

Mechanical	Flat Fee \$80.00
Plumbing	Flat Fee \$80.00
Electrical	Flat Fee \$80.00
OTHER	
Vacant Property Registration	\$75 per property
Zoning verification/Property Research	\$110/hr.
Rezoning	\$400.00
Zoning compliance	\$110/hr.
Home occupation	\$50.00
Preliminary Site Plan Review	\$400.00 + Re-Submittals/Other Engineering Costs
Conditional Use Permit	\$400.00
Appeal or Variance request	\$400.00
Fence permit	\$100.00
Grading/Cosesco Permit	\$75.00
Floodplain Development Permit	\$100.00
Pool permit	\$100.00
Signs	Basic Fee \$100.00+ \$1.00 per square foot
▪ Temporary signs	\$25
Temporary Structure	
▪ Commercial	\$50.00/month
▪ Residential	First 30 days- \$0; Second 30 days- \$20.00, Third 30 days- \$40.00; thereafter- \$20.00 per 30 day extension
Sidewalk / Driveway approach	\$50.00
R-O-W Excavation	\$100.00
Non-Franchise Utility License	\$400.00
Demolition/Raze	\$100.00
Permits or inspections for which no fee is specified (block parties, other)	\$40.00
Temporary Obstruction Permit	\$40.00
Temporary Use	
▪ Maximum 4 days	\$30.00
▪ Events longer than 4 days (produce stands, etc.)	\$60.00
▪ Long-term food and beverage	\$280.00
▪ Garden Centers and Large Structures	\$60.00 plus \$500.00 deposit, unless waived by Zoning Administrator
▪ Mobile Food Unit License	\$75.00
▪ Mobile Food Unit Special Event Permit	Fee Set By City Administrator Based On Event
CODE ENFORCEMENT	
Nuisance Abatement	
Lot mowing	\$175.00/hour (1 hour minimum)
R-O-W mowing	\$100.00/hour (1 hour minimum)

Sidewalk snow removal	\$1.00 per lineal foot; or minimum \$100.00
Notice to Abate	\$100.00
Re-Inspection	\$100.00 per inspection
Administrative Hearing	\$0
Preparation of Abatement Warrant	\$378.00
Abatement	Actual cost-plus 30%
Cost of Imposing Lien	\$82 plus County charge if any
Additional staff administrative time not covered above	\$95/hour plus actual costs for code enforcement and \$82/hour plus actual costs for finance employees

Community Center Rental Rates			
	Non- Resident Rate	Non-Profit Rate (Proof will be required)	Resident Rate (Proof will be required)
Saturday 6 AM – Midnight	\$2,800		
Weekend 6 PM Fri to 6 PM Sun	\$5,600 Includes overnight storage; renters must still vacate from 12 AM-6AM each night		
1/3 Space Minimum 2 -hour rental	\$130 per hour	\$112 per hour	\$91 per hour
2/3 Space Minimum 2-hour rental	\$155 per hour	\$132 per hour	\$109 per hour
Full Space Minimum 2-hour rental	\$210 per hour	\$176 per hour	\$147 per hour
Full Space 6 AM – Midnight	\$2,800 Full day		
Cleaning Fees	At City’s cost This fee is optional for Mon-Thurs rentals and non-optional for Fri-Sun rentals		
Pavilion 8-hour rental	\$100	\$75	\$70
Pavilion 4-hour rental	\$50	\$37.50	\$35
Resident/Non-Profit will be required to show proof of residency or non-profit status.			
DOWN PAYMENTS			
To confirm all reservations, a down payment of 50% and a signed agreement are required. Windsor Heights does not hold dates and all rentals are on a first come basis only. Down payments are non-refundable on any cancellation.			
PARKS			
BALL FIELD RENTALS			
Ball Field rentals are available in full one hour increments only.			
		Non-Resident Fee	Resident Fee (with ID)
	Hourly	\$25.00	\$20.00
•			
SPECIAL EVENTS PERMIT		\$50.00	

Commented [NL1]: This is covered above

Required on events hosted in the Community Center and Park, which are open to the public



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Andy Larson

SUBJECT: Approve Salt Shed Improvements Project Pay App #2

GENERAL INFORMATION

On Monday August 5, 2024, JC Midwest Services, LLC. was awarded a competitive bid contract for the Salt Shed Improvements Project along with a subsequent change order request approved by Council on October 7, 2024 totaling \$121,642.12. The scope of work outlined in the contract and project manual between the City and JC Midwest Services, LLC. has reached final completion. JC Midwest Services, LLC. is requesting payment of the remaining 5% retainage fee in the amount of \$6,082.11.

It is the recommendation of Public Works Staff to approve this pay request of \$6,082.11 to JC Midwest Services, LLC. for the work performed to final completion of the Salt Shed Improvement Project.

ATTACHMENTS

1. Pay App #2

Contractor's Application for Payment

Owner:	City of Windsor Heights	Owner's Project No.:	
Engineer:	Bolton & Menk, Inc.	Engineer's Project No.:	0A1.133895
Contractor:	JC Midwest Services, LLC	Agency's Project No.:	
Project:	Salt Shed Improvements		
Contract:			
Application No.:	2	Application Date:	12/16/2024
Application Period:	From 10/1/2024	to	11/15/2024

1. Original Contract Price	\$	106,220.62
2. Net change by Change Orders	\$	15,421.50
3. Current Contract Price (Line 1 + Line 2)	\$	121,642.12
4. Total Work completed and materials stored to date (Sum of Column H Unit Price Total and Column M Stored Materials)	\$	121,642.12
5. Retainage		
a. ☐ X \$ 121,642.12 Work Completed	\$	-
b. ☐ X \$ - Stored Materials	\$	-
c. ☐ X \$ - Liquidated Damages (Lump Sum)	\$	-
d. Total Retainage (Line 5.a + Line 5.b + Line 5.c)	\$	-
6. Amount eligible to date (Line 4 - Line 5.d)	\$	121,642.12
7. Less previous payments	\$	115,560.01
8. Amount due this application	\$	6,082.11
9. Balance to finish, including retainage (Line 3 - Line 4)	\$	-

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:

- (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
- (2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and
- (3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective; and
- (4) The provisions of M. S. 290.92 have been complied with and that all claims against me by reason of the Contract have been resolved.

Contractor: JC Midwest Services, LLC

Signature: _____	Date: _____
Name: _____	Title: _____

Recommended by Engineer**Approved by Owner**

By: _____
Name: Justin Ernst
Title: Principal Engineer
Date: _____

By: _____
Name: _____
Title: _____
Date: _____

Progress Estimate - Unit Price Work

Contractor's Application for Payment

Owner:		City of Windsor Heights				Owner's Project No.:					
Engineer:		Bolton & Menk, Inc.				Engineer's Project No.:		0A1.133895			
Contractor:		JC Midwest Services, LLC				Agency's Project No.:					
Project:		Salt Shed Improvements									
Contract:											

Application No.:		2		Application Period:		From		10/01/24		to		11/15/24		Application Date:		12/16/2024	
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A	B	C	D	E	F	F1	F2	G	H	I	J
Bid Item No.	Description	Item Quantity	Units	Unit Price (\$)	Value of Bid Item (C X E) (\$)	Previous Estimate		Work Completed		% of Value of Item (H / F) (%)	Balance to Finish (F - H) (\$)
						Quantity Previous Estimate	Value Previous Estimate	Estimated Quantity Incorporated in the Work	Value of Work Completed to Date (E X G) (\$)		
Original Contract											
1	BUILDING FOOTINGS AND WALLS	1.00	LS	106,220.62	106,220.62		-	1.00	106,220.62	100%	-
Original Contract Totals					\$ 106,220.62		\$ -		\$ 106,220.62		\$ -
Change Orders											
8001	Change Order 1	1.00	LS	15,421.50	15,421.50			1.00	15,421.50		-
Change Order Totals					\$ 15,421.50				\$ 15,421.50		\$ -
Original Contract and Change Orders											
Project Totals					\$ 121,642.12				\$ 121,642.12		\$ -



**STAFF REPORT
CITY COUNCIL**

December 16, 2024

TO: CITY COUNCIL

FROM: Andy Larson

SUBJECT: Approve Acceptance of Salt Shed Improvement Project Certificate of Completion

GENERAL INFORMATION

The City entered into a contract with JC Midwest Services, LLC for the Salt Shed Improvement Project located at the Public Works Maintenance Facility. Bolton and Menk, Inc. were the engineers of record on this project. Andy Larson served as Project Manager for the City. JC Midwest Services, LLC has completed the project in substantial compliance with the plans, specifications, contract documents, and change orders that governed this project.

It is the recommendation of Public Works Staff for Council to accept and file the Certificate of Completion for the Salt Shed Improvement Project.

ATTACHMENTS

1. Salt Shed Final Acceptance and Certificate of Completion

**FINAL ACCEPTANCE
AND
CERTIFICATE OF COMPLETION**

Salt Shed Improvements
City of Windsor Heights, Iowa

JC Midwest Services
1616 McBride Road
Van Meter, IA 50261

I hereby declare that this project has been completed in substantial compliance with the plans, specifications, contract documents, and change orders governing this project and recommend that the work completed be accepted by the Owner, with the following exceptions and conditions:

Exceptions – None

Date of Final Completion – 12/6/2024

The undersigned accepts the work constructed under the conditions and guarantee of the contract with the exceptions noted above.

The final contract amount is \$121,642.12

Dated this 6th of December 2024

Recommended by Engineer, Bolton & Menk, Inc.

By 

Justin Ernst, P.E.
Bolton & Menk, Inc.

Accepted by Owner, City of Windsor Heights

By

Name

Title

Date

Attest

Name

Title

Date



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM:

SUBJECT: Discuss Proposed YMCA Summer Camp at Colby Park

GENERAL INFORMATION

GENERAL INFORMATION

The YMCA has requested general use of Colby Park from **June 9th to August 15th** to host a Summer Camp between the *tentative* hours of 6AM-9PM. As part of the proposal, the YMCA offers a \$1,000 in-kind donation for use of the park. Windsor Heights residents would receive a \$10 discount per child, per week for camp enrollment at Colby Park. Current weekly rates are \$195 for YMCA members and \$215 for non-members.

Discussions and Considerations

Staff have engaged with Joelle Keilhauer, YMCA Child Care Services Executive Director, to discuss potential camp operations. While some details remain to be finalized, Administrative staff supports piloting the program in 2025 and seeks City Council's direction regarding the proposal.

Joelle Keilhauer will attend the meeting to provide further details and address questions.

Key Discussion Points and Conditions

- **Participation Cap:**
 1. Limit the number of participants to a set maximum for 2025. YMCA anticipates a maximum of 60-75 participants.
- **Park Accessibility:**
 1. Colby Park, including the playground, must remain open to the general public during YMCA use.
 2. Camp programming on the playground should be scheduled during low public use hours to ensure accessibility for the community.
- **CEC Usage:**

1. YMCA may use the Community Events Center (CEC) during rain days if available.
 2. The CEC booking calendar will be shared with the YMCA, with bookings not permitted less than two days in advance.
 3. YMCA is responsible for cleaning the CEC and restoring it to pre-use configuration.
- **Pavilion and Ballfield Use:**
 1. Pavilion and ballfield usage is subject to availability.
 2. Similar booking conditions apply as with the CEC.
 - **Yoga Classes:**
 1. YMCA must coordinate with the weekday 6–7 AM Yoga classes, held in the CEC or the pavilion (weather permitting).
 - **City Events:**
 1. YMCA must work around planned City/Foundation events, including Tuesday Nights in the Heights (6 PM) and other park activities.
 2. The YMCA must coordinate with DSM Library Family Storytime at Colby Park (June 6, 27; July 11, 25 at 10:15 AM), particularly during rainy days which the CEC or a portion of the CEC is proposed to be utilized.
 - **Park Maintenance:**
 1. The Windsor Heights Park Department will continue regular maintenance, including mowing, fertilizer applications, and herbicide treatments (with 24-hour signage). Maintenance will typically intersect with Camp hours.
 - **Prairie Area Restrictions:**
 1. The small area west of the ball diamond and southeast of the pavilion, designated for prairie establishment, will not be available for use.
 - **Irrigation Awareness:**
 - YMCA is advised that various irrigation zones in the park run from 4–6 AM, potentially leaving some areas damp after 6 AM.

Next Steps

If City Council supports the proposed use, staff will formalize the agreement incorporating the above items and any additional terms or conditions Council may wish to require.

Attachment

1. YMCA Request for Use of Colby Park

Prairie Area shown below



ATTACHMENTS

1. YMCA Proposal City of Windsor Heights 12.12.24



FOR YOUTH DEVELOPMENT
FOR HEALTHY LIVING
FOR SOCIAL RESPONSIBILITY

December 12, 2024

The YMCA of Greater Des Moines is interested in providing Summer Camp programming in Colby park for Summer 2025. The YMCA of Greater Des Moines has been providing Summer Camp programming in the Des Moines area since the early 1990's. The Y continues to look for areas within the city in which we believe youth could benefit from summer camp/youth development programming.

Y Summer Camp begins the week of June 9, 2025 and ends August 15, 2025 (with the exception of July 4th). Currently we run Summer Camp from 6:30am to 6:00pm, however, if concerned with the length of programming, we could adjust the beginning or end time. Our Summer Camp programs ideally runs in an outdoor space with the need of temporary shelter on inclement weather days. We would request to use the Community Center in inclement weather as long as there is not a previous scheduled rental. If it is not available, the Y will bus children to another location for the day.

The YMCA of Greater Des Moines would make a \$1,000 in kind donation for the use of the space for summer 2025.

Windsor Heights residents would receive a \$10 discount per week, per child if enrolled in the camp at Colby Park. Current summer camp rates are \$195 (YMCA member rate) and \$215 (non-member rate) per week.

We ask for your consideration with this request.

Thank you!

JOELLE KLEIHAUER
Child Care Services, Executive Director

YMCA of Greater Des Moines
501 Grand Ave.
Des Moines, Iowa 50309
YMCA (515) 282-9622
www.dymymca.org



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Plagge, City Administrator

SUBJECT: Consideration of Resolution No. 2024-76 - A Resolution To Provide For A Notice Of Public Hearing On The Proposed Plans, Specifications, Form Of Contract, And Estimated Total Cost For The 68th Street South Reconstruction Project And For The Taking Of Bids On Said Project

GENERAL INFORMATION

The proposed project is planned for completion in three stages by **November 21, 2025**, as detailed in the attached plans under J.02. Key details include the following:

General Project Guidelines

- **Stage Sequence:**
 - **Stage 1:** Work begins here.
 - **Stage 2:** Can commence after all underground work in Stage 1 is completed.
 - **Stage 3:** May start only after substantial completion of Stages 1 and 2.
- **Liquidated Damages:** \$500 per calendar day for delays beyond the project timeline.

Event Coordination

The successful bidder must coordinate with the Jurisdiction to ensure minimal disruption during key community events:

- **Movies in the Park at Colby Park:** May 2, June 6, August 1, October 3
- **Touch a Truck at Colby Park:** May 30
- **National Night Out:** August 5
- **Fall Fest at Colby Park (including parade on 69th Street):** October 3–4
- **Spring Cleanup:** Date TBD

Additional Requirements

- **Notifications:** Contractor must notify the Jurisdiction and affected property owners at least 48 hours prior to any street closures.

- **Temporary Walkways:** Rubber mats must be laid, and a temporary walkway must be maintained during the project.

This framework ensures structured progress while accommodating community needs and minimizing disruptions.

ATTACHMENTS

1. Resolution No. 2024-76 Resolution Setting PH and Approve Plans for 68th South Reconstruction
2. 2024-12-12 - 68TH STREET RECONSTRUCTIONS
3. 133739_ PROJECT MANUAL 20241211
4. 68th St. Stages

Resolution No. 2024-76

A RESOLUTION TO PROVIDE FOR A NOTICE OF PUBLIC HEARING ON THE PROPOSED PLANS, SPECIFICATIONS, FORM OF CONTRACT, AND ESTIMATED TOTAL COST FOR THE 68TH STREET SOUTH RECONSTRUCTION PROJECT AND FOR THE TAKING OF BIDS ON SAID PROJECT

WHEREAS, it is proposed that the City of Windsor Heights authorize the construction of public improvements as described in the proposed plans, specifications, and form of contract prepared by Bolten and Menk (the “Project Engineer”), which may be hereinafter referred to as the “68th Street South Reconstruction” (the “Project”); and

WHEREAS, the proposed plans, specifications, form of contract and estimated total cost for the project (the “Contract Documents”) are on file with the City Clerk; and

WHEREAS, it is necessary to set a time and place for a public hearing on the Contract Documents, to publish Notice of Public Hearing on the Contract Documents, and to advertise for sealed bids on the Project.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WINDSOR HEIGHTS, IOWA:

1. The City hereby approves the proposed Contract Documents referred to in this Resolution, as prepared by the Project Engineer, in their preliminary form.
2. The City hereby determines that the Project is necessary and desirable for the City and finds that it is in the best interest of the City to proceed towards construction of the Project.
3. The City shall hold a public hearing on the proposed Contract Documents on February 3, 2024 at 6:00 pm at City Hall, at which time any interested person may appear and file objections to the proposed Contract Documents, and, after hearing objections, the City may proceed with approval of said Contract Documents.
4. The City hereby authorizes and directs the City Clerk to publish the notice of public hearing on the Contract Documents for the Project at least once, not less than four (4) not more than twenty (20) days before the date of the hearing.
5. The City hereby delegates Bolten and Menk the duty of publishing notice to bidders not less than 13 or more than 45 days before the date of filing bids.
6. The City hereby sets January 28, 2024 at 10:00 AM in the Office of the City Clerk as the time and place that the City’s designee will open and announce the bids received for construction of the Project.
7. The City hereby authorizes and directs advertisement for sealed bids for the Project in accordance with Iowa Code Chapter 26.

Passed and approved this 16th day of December, 2024.

Mike Jones, Mayor

Attest: _____
Adam Strait, City Clerk

CITY OF WINDSOR HEIGHTS, IOWA

CONSTRUCTION PLANS FOR

68TH STREET SOUTH

RECONSTRUCTION

WINDSOR HEIGHTS, IA

JANUARY 2025

GOVERNING SPECIFICATIONS

THE 2024 EDITION OF THE "IOWA STATEWIDE URBAN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS".

IOWA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION", VERSION OCTOBER 2015 AND ALL CURRENT GENERAL SUPPLEMENTAL SPECIFICATIONS AND MATERIALS INSTRUCTIONAL MEMORANDUM SHALL GOVERN AS REFERENCED.

MUTCD 2009 AS ADOPTED BY IOWA DEPARTMENT OF TRANSPORTATION.

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW, NOTIFY IOWA ONE CALL 1-800-292-8989



UTILITY CONTACTS

SANITARY SEWER: CITY OF WINDSOR HEIGHTS
JASON ROBERTS
1145 66TH ST.
WINDSOR HEIGHTS, IOWA 50324
CELL: 515-279-3662

STORM SEWER: CITY OF WINDSOR HEIGHTS
JASON ROBERTS
1145 66TH ST.
WINDSOR HEIGHTS, IOWA 50324
CELL: 515-279-3662

WATER: DES MOINES WATER WORKS
CARLA SCHUMACHER
2201 GEORGE FLAG PARKWAY
DES MOINES, IOWA 50321
CSCHUMACHER@DMWW.COM

NATURAL GAS: MIDAMERICAN ENERGY
SCOT ENGER
3500 104TH STREET
URBANDALE, IA 50322
CELL: 515-252-6742
SCOT.ENG@MIDAMERICAN.COM

ELECTRIC: MIDAMERICAN ENERGY
SCOT ENGER
3500 104TH STREET
URBANDALE, IA 50322
CELL 515-252-6742
SCOT.ENG@MIDAMERICAN.COM

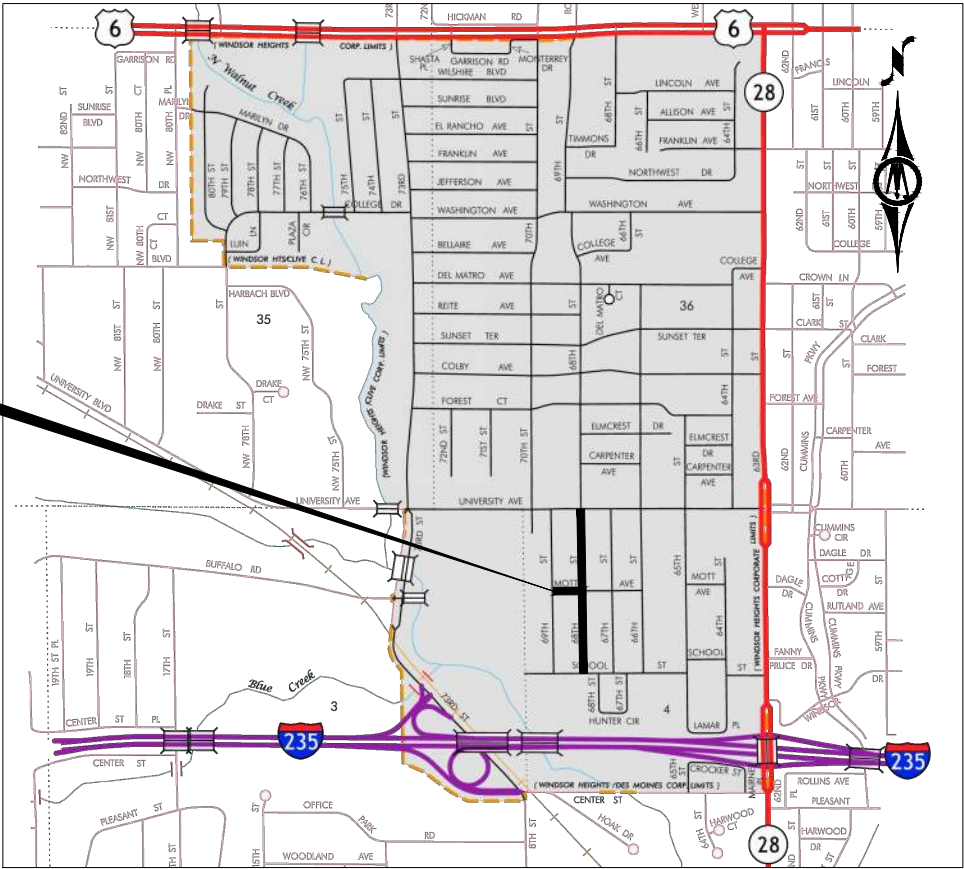
COMMUNICATIONS LUMEN:
ASHLIE CLEMENTS
2103 E. UNIVERSITY
DES MOINES, IA 50317
CELL: 906-284-2821
ASHLIE.CLEMENTS@LUMEN.COM

IOWA COMMUNICATION NETWORK:
TIMOTHY FLICKINGER
400 EAST 14TH STREET
DES MOINES, IA 50319
CELL: 515-494-3750
TIMOTHY.FLICKINGER@IOWA.GOV

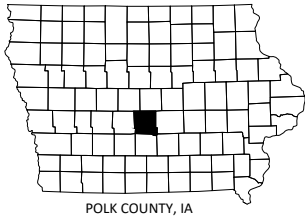
VERIZON
MARK ALEXANDER
CELL: 515-499-5998

MEDIACOM
KEVIN COLLINS
CELL: 515-5542648
KCCOLLINS1@MEDIACOMCC.COM

PROJECT LOCATION



MAP OF THE
CITY OF WINDSOR HEIGHTS
POLK COUNTY, IA



SHEET INDEX

SHEET NUMBER	SHEET TITLE	REVISION	ISSUE DATE
A.01	TITLE		
A.02	LEGEND		
B.01 - B.03	TYPICAL SECTIONS		
C.01 - C.02	GENERAL NOTES		
C.03	QUANTITIES - BASE BID		
C.04 - C.06	ESTIMATE REFERENCE NOTES - BASE BID		
C.07	QUANTITIES - ALTERNATE A		
C.08	ESTIMATE REFERENCE NOTES - ALTERNATE A		
C.09	TABULATIONS		
D.01 - D.03	PLAN & PROFILE - 68TH STREET		
D.04	PLAN & PROFILE - MOTT AVENUE		
D.05	PLAN & PROFILE - SCHOOL ST		
F.01 - F.02	REMOVAL SHEETS - 68TH STREET		
F.03	REMOVAL SHEETS - MOTT AVENUE		
G.01 - G.02	ALIGNMENT AND CONTROL DATA		
H.01 - H.03	RIGHT OF WAY		
J.01	STAGING AND TRAFFIC CONTROL NOTES		
J.02	STAGING AND TRAFFIC CONTROL - 68TH STREET		
J.03 - J.06	TRAFFIC CONTROL - 68TH STREET		
K.01	RETAINING WALL DETAILS		
K.02	PLAN & PROFILE - RETAINING WALL		
L.01 - L.03	JOINTING DETAILS		
L.04 - L.06	INTERSECTION DETAIL - 68TH STREET		
L.07	INTERSECTION DETAILS - MOTT AVE		
M1.01 - M1.02	STORM SEWER TABULATION		
M1.03 - M1.09	STORM SEWER DETAILS		
M1.10 - M1.12	STORM SEWER PLAN - 68TH STREET		
M1.13	STORM SEWER PLAN - MOTT AVENUE		
M1.14 - M1.17	STORM SEWER CROSS-RUNS		
M2.01	SANITARY SEWER DETAILS & TABULATION		
M2.02 - M2.04	SANITARY SEWER PLAN - 68TH STREET		
MWM.01	WATER MAIN GENERAL NOTES		
MWM.02	WATER MAIN SCHEDULE		
MWM.03	DES MOINES WATER WORKS DETAIL		
MWM.04 - MWM.07	WATER MAIN PLAN & PROFILE - 68TH STREET		
MWM.08	WATER MAIN PLAN - MOTT AVENUE		
N.01	SIGNING & STRIPPING DETAILS AND TABULATION		
N.02 - N.04	SIGNING AND STRIPPING PLAN		
R.01 - R.02	SWPPP GENERAL NOTES		
R.03	EROSION CONTROL DETAILS		
R.04 - R.06	EROSION CONTROL PLAN		
S.01 - S.02	SIDEWALK DETAILS		
S.03 - S.06	SIDEWALK SHEETS - 68TH STREET		
S.07	SIDEWALK SHEETS - MOTT AVENUE & SCHOOL STREET		
S.08 - S.09	ADA COMPLIANCE		
W.01 - W.05	CROSS SECTIONS - 68TH ST		
W.06	CROSS SECTIONS - MOTT AVE		



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

JUSTIN L. ERNST, P.E.

LICENSE NUMBER: 23753 DATE: XX/XX/XXXX

MY LICENSE RENEWAL DATE IS December 31, 2025

PAGES OR SHEETS COVERED BY THIS SEAL:

ALL SHEET

CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

TITLE SHEET

SHEET

A.01



430 E GRAND AVENUE, SUITE 101
DES MOINES, IA 50309
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Email: DesMoines@bolton-menk.com
www.bolton-menk.com

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EXISTING TOPOGRAPHIC SYMBOLS

	ACCESS GRATE		SATELLITE DISH
	AIR CONDITION UNIT		SIGN TRAFFIC
	ANTENNA		SIGNAL CONTROL CABINET
	AUTO SPRINKLER CONNECTION		SOIL BORING
	BARRICADE PERMANENT		SIREN
	BASKETBALL POST		TELEPHONE BOOTH
	BENCH		TILE INLET
	BIRD FEEDER		TILE OUTLET
	BOLLARD		TILE RISER
	BUSH		TRANSFORMER-ELECTRIC
	CATCH BASIN RECTANGULAR CASTING		TREE-CONIFEROUS
	CATCH BASIN CIRCULAR CASTING		TREE-DEAD
	CURB STOP		TREE-DECIDUOUS
	CLEAN OUT		TREE STUMP
	CULVERT END		TRAFFIC ARM BARRIER
	DRINKING FOUNTAIN		TRAFFIC SIGNAL
	DOWN SPOUT		TRASH CAN
	FILL PIPE		UTILITY MARKER
	FIRE HYDRANT		VALVE
	FLAG POLE		VALVE POST INDICATOR
	FLARED END / APRON		VALVE VAULT
	FUEL PUMP		VAULT
	GRILL		VENT PIPE
	GUY WIRE ANCHOR		WATER SPIGOT
	HANDHOLE		WELL
	HANDICAP SPACE		WETLAND DELINEATED MARKER
	IRRIGATION SPRINKLER HEAD		WETLAND
	IRRIGATION VALVE BOX		WET WELL
	LIFT STATION CONTROL PANEL		YARD HYDRANT
	LIFT STATION		
	LIGHT POLE		
	MAILBOX		
	MANHOLE-COMMUNICATION		
	MANHOLE-ELECTRIC		
	MANHOLE-GAS		
	MANHOLE-HEAT		
	MANHOLE-SANITARY SEWER		
	MANHOLE-STORM SEWER		
	MANHOLE-UTILITY		
	MANHOLE-WATER		
	METER		
	ORDER MICROPHONE		
	PARKING METER		
	PAVEMENT MARKING		
	PEDESTAL-COMMUNICATION		
	PEDESTAL-ELECTRIC		
	PEDESTRIAN PUSH BUTTON		
	PICNIC TABLE		
	POLE-UTILITY		
	POST		
	RAILROAD SIGNAL POLE		
	REGULATION STATION GAS		

PROPOSED TOPOGRAPHIC SYMBOLS

	CLEANOUT
	MANHOLE
	LIFT STATION
	STORM SEWER CIRCULAR CASTING
	STORM SEWER RECTANGULAR CASTING
	STORM SEWER FLARED END / APRON
	STORM SEWER OUTLET STRUCTURE
	STORM SEWER OVERFLOW STRUCTURE
	CURB BOX
	FIRE HYDRANT
	WATER VALVE
	WATER REDUCER
	WATER BEND
	WATER TEE
	WATER CROSS
	WATER SLEEVE
	WATER CAP / PLUG
	RIP RAP
	DRAINAGE FLOW
	TRAFFIC SIGNS
	LIGHT POLE

SURVEY SYMBOLS

	BENCHMARK LOCATION		CAST IRON MONUMENT
	CONTROL POINT		STONE MONUMENT
	MONUMENT FOUND		

EXISTING TOPOGRAPHIC LINES

	RETAINING WALL
	FENCE
	FENCE-DECORATIVE
	GUARD RAIL
	TREE LINE
	BUSH LINE

SURVEY LINES

	CONTROLLED ACCESS
	BOUNDARY
	CENTERLINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING LOT LINE
	PROPOSED LOT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	SETBACK LINE
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	TEMPORARY EASEMENT

EXISTING UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE

PROPOSED UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE
	PIPE CASING
	TRENCHLESS PIPE (PLAN VIEW)
	TRENCHLESS PIPE (PROFILE VIEW)

GRADING INFORMATION

	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	PROPOSED GRADING LIMITS / SLOPE LIMITS
	PROJECT LIMITS
	PROPOSED SPOT ELEVATION
	RISE:RUN (SLOPE)

EXISTING PRIVATE UTILITY LINES

NOTE:
EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY IOWA ONE CALL - 1-800-292-8989

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

	UNDERGROUND FIBER OPTIC
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND COMMUNICATION
	OVERHEAD ELECTRIC
	OVERHEAD COMMUNICATION
	OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL OTHER THAN D:

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE: G-A G-A UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

LEVEL D - INFORMATION COMES SOLELY FROM EXISTING UTILITY RECORDS.

LEVEL C - SURVEYING ABOVE GROUND UTILITY FACILITIES, SUCH AS MANHOLES, VALVE BOXES, ETC; AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS.

LEVEL B - THE USE OF SURFACE GEOPHYSICAL TECHNIQUES TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF UNDERGROUND UTILITIES.

LEVEL A - THE USE OF NONDESTRUCTIVE DIGGING EQUIPMENT AT HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GV	GATE VALVE	SAN	SANITARY SEWER
ADJ	ADJUST	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
ALT	ALTERNATE	HH	HANDHOLE	SERV	SERVICE
B-B	BACK TO BACK	HMA	HOT MIX ASPHALT	SHLD	SHOULDER
BLDG	BUILDING	HP	HIGH POINT	STA	STATION
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STD	STANDARD
BR	BEGIN RADIUS	HYD	HYDRANT	STM	STORM SEWER
BV	BUTTERFLY VALVE	I	INVERT	TC	TOP OF CURB
CB	CATCH BASIN	K	CURVE COEFFICIENT	TE	TEMPORARY EASEMENT
C&G	CURB AND GUTTER	L	LENGTH	TEMP	TEMPORARY
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TNH	TOP NUT HYDRANT
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TP	TOP OF PIPE
CL	CENTER LINE	LT	LEFT	TYP	TYPICAL
CL	CLASS	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CSP	CORRUGATED STEEL PIPE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CLVT	CULVERT	NTS	NOT TO SCALE	WM	WATERMAIN
DIA	DIAMETER	NWL	NORMAL WATER LEVEL	WS	WATER SERVICE
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY	DRIVEWAY	PC	POINT OF CURVE		
E	EXTERNAL CURVE DISTANCE	PCC	PORTLAND CEMENT CONCRETE	AC	ACRES
ESMT	EASEMENT	PE	PERMANENT EASEMENT	CF	CUBIC FEET
ELEC	ELECTRIC	PED	PEDESTRIAN, PEDESTAL	CV	COMPACTED VOLUME
ELEV/EL	ELEVATION	PERF	PERFORATED PIPE	CY	CUBIC YARD
EOF	EMERGENCY OVERFLOW	PERM	PERMANENT	EA	EACH
ER	END RADIUS	PI	POINT OF INTERSECTION	EV	EXCAVATED VOLUME
EX	EXISTING	PL	PROPERTY LINE	LB	POUND
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LF	LINEAR FEET
F-F	FACE TO FACE	PT	POINT OF TANGENT	LS	LUMP SUM
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	LV	LOOSE VOLUME
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SF	SQUARE FEET
FM	FORCEMAIN	R	RADIUS	SV	STOCKPILE VOLUME
FO	FIBER OPTIC	RCP	REINFORCED CONCRETE PIPE	SY	SQUARE YARD
F.O.	FIELD ORDER	RET	RETAINING		
GRAN	GRANULAR	R/W	RIGHT-OF-WAY		
GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT		
GU	GUTTER	RT	RIGHT		



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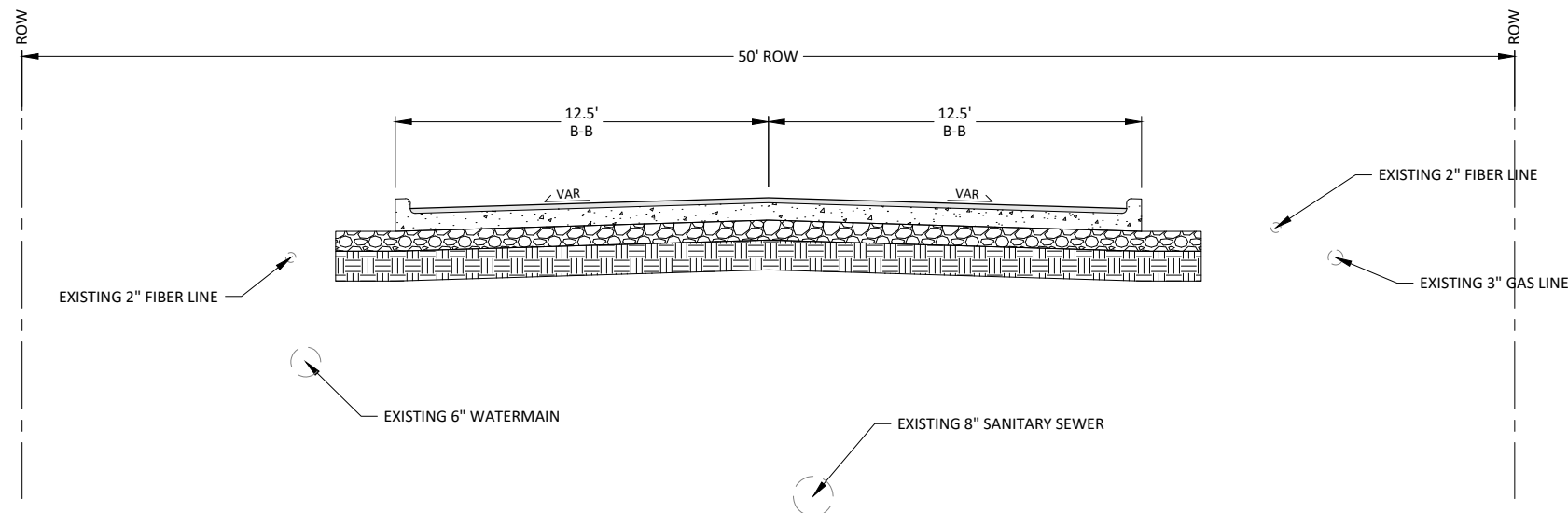
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

LEGEND SHEET

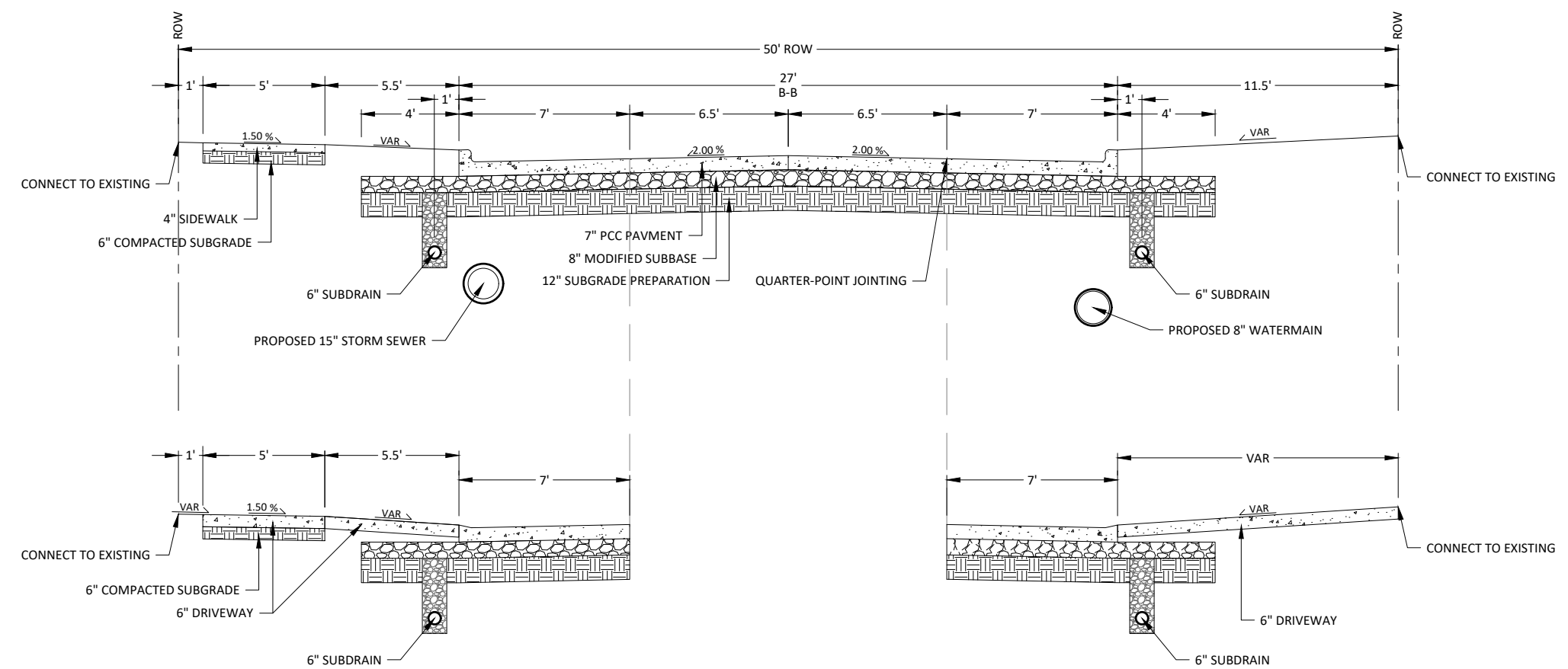
SHEET

A.02



TYPICAL EXISTING PAVEMENT SECTION - 68TH ST
NOT TO SCALE

STA: 10+00.00 TO 27+79.81



TYPICAL SECTION - PCC PAVEMENT - 68TH ST
NOT TO SCALE

STA: 10+00.02 TO 18+78.98

STA: 23+85.00 TO 27+71.83

DRIVEWAY SECTION
NOT TO SCALE

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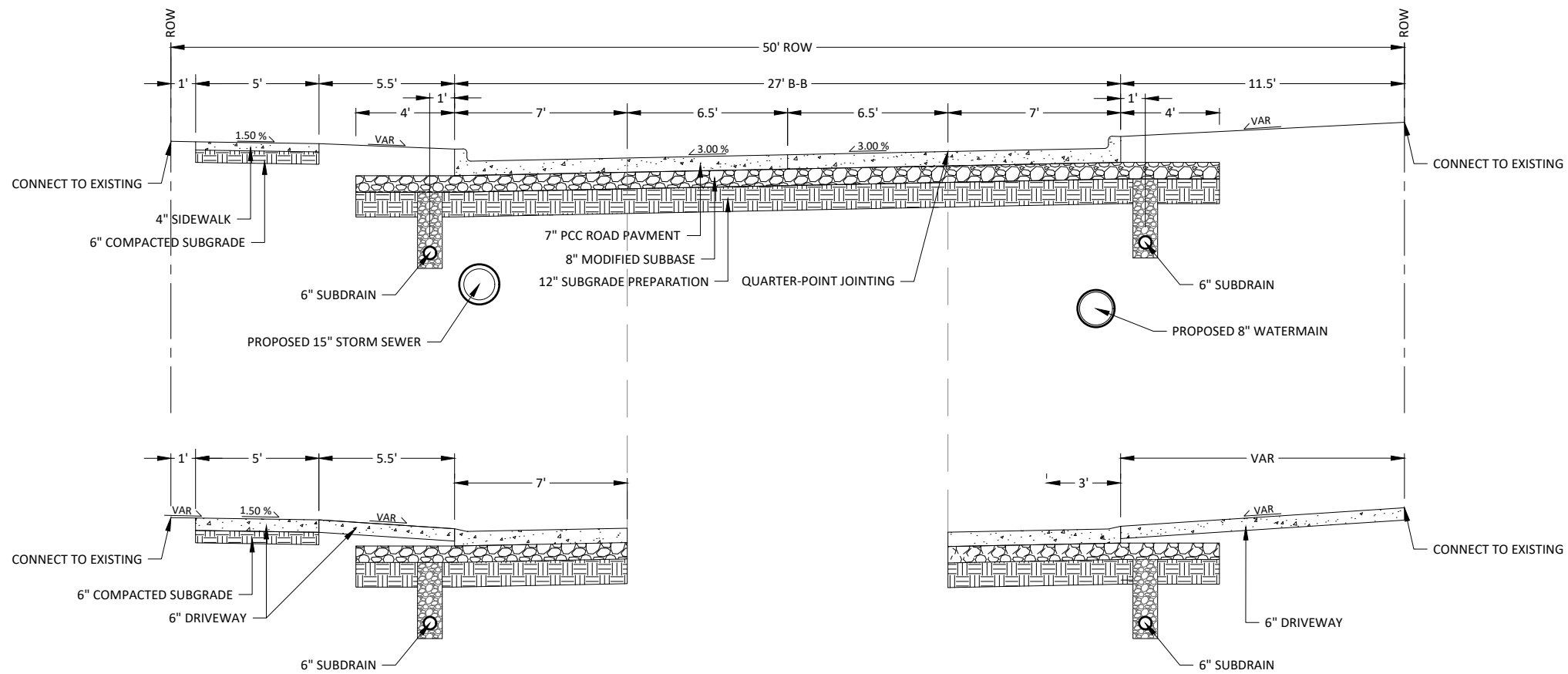


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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
TYPICAL SECTIONS

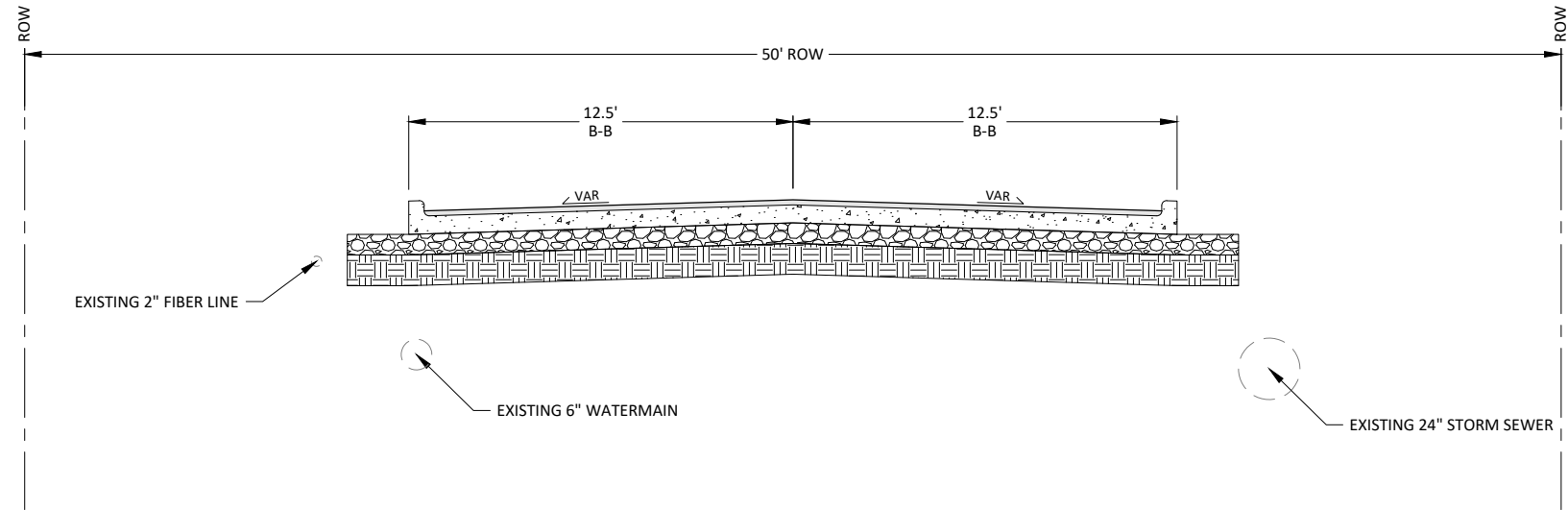
SHEET
B.01



TYPICAL SECTION - PCC PAVEMENT MONOSLOPE - 68TH ST
NOT TO SCALE

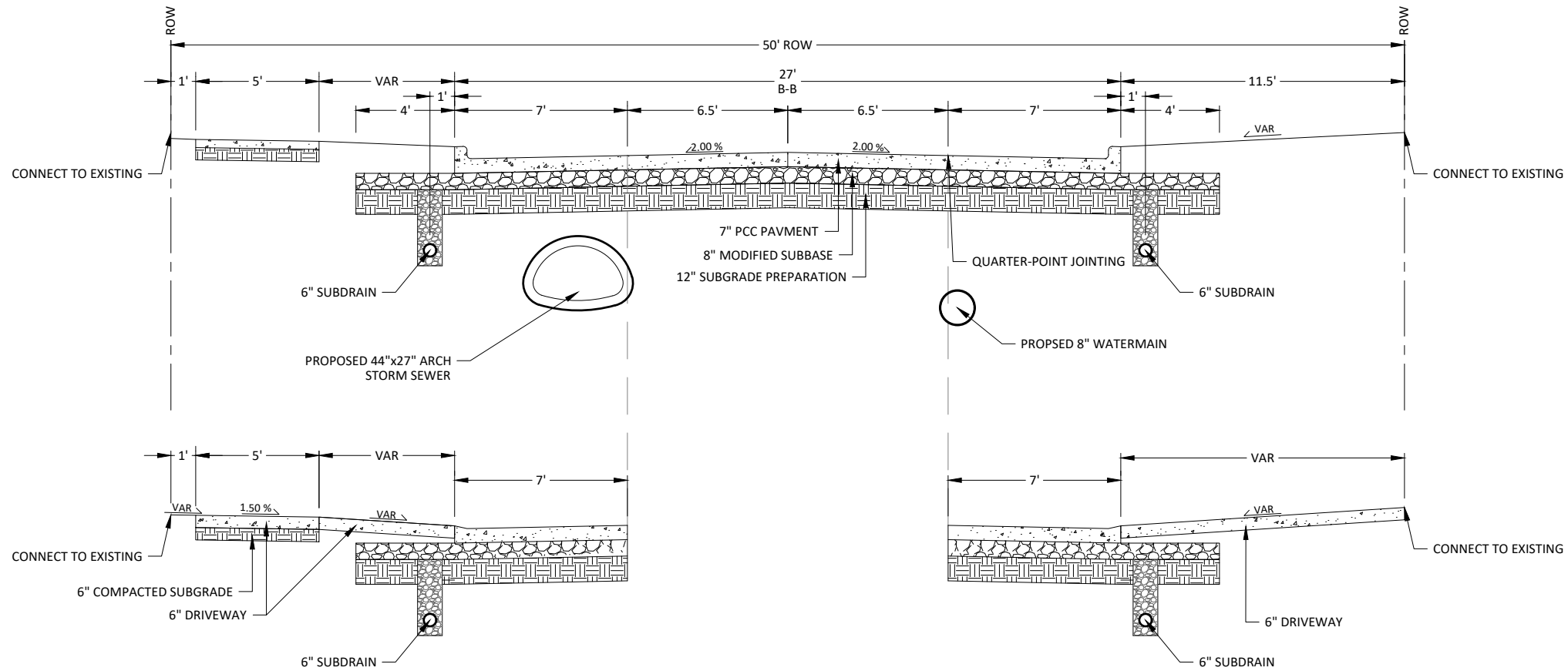
DRIVEWAY SECTION
NOT TO SCALE

STA: 19+35.17 TO 22+62.45



TYPICAL EXISTING PAVEMENT SECTION - MOTT AVE
NOT TO SCALE

STA: 50+00.00 TO 53+50.50



TYPICAL SECTION - ALTERNATE BID
NOT TO SCALE

DRIVEWAY SECTION
NOT TO SCALE

STA: 50+00.00 TO STA 53+50.50

STANDARD CONSTRUCTION NOTE:

1.

ALL IMPROVEMENTS, EXCEPT FOR WATER MAIN RELATED ITEMS, SHALL BE IN ACCORDANCE WITH THE 2024 EDITION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) AND SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. THE CONTRACTOR SHALL HAVE A COMPLETE SET OF THE CURRENT SUDAS STANDARD SPECIFICATIONS ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
2.

WATER MAIN RELATED IMPROVEMENTS AND ITEMS TO FOLLOW PLANS AND DES MOINES WATER WORKS SPECIAL PROVISIONS.
3.

ANY DEFECTIVE WORK CONDEMNED BY THE ENGINEER SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH SUDAS SECTION 1050. FAILURE TO REMOVE DEFECTIVE WORK MAY RESULT IN SUSPENSION OF OPERATIONS AND/OR WITHHOLDING OF PAYMENTS UNTIL DEFECTIVE WORK HAS BEEN REMOVED AND REPLACED.
4.

PRIOR TO MOBILIZING OFF OF THE JOB SITE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO REQUEST A FINAL INSPECTION IN ACCORDANCE WITH SUDAS SECTION 1050.
5.

THE CONTRACTOR SHALL PROCURE ALL NECESSARY PERMITS AND LICENSES IN ACCORDANCE WITH SUDAS SECTION 1070.
6.

THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND COMPLYING WITH ALL CURRENT AND FUTURE FEDERAL AND STATE OSHA REQUIREMENTS IN ACCORDANCE WITH SUDAS SECTION 1070.
7.

LIMITS OF CONSTRUCTION ARE WITHIN THE CITY RIGHT OF WAY, UNLESS SHOWN OTHERWISE IN THE CONSTRUCTION DRAWINGS. WORK SHALL BE COMPLETED IN THE LIMITS OF CONSTRUCTION AND IN ACCORDANCE WITH SUDAS SECTION 1070.
8.

THE CONTRACTOR SHALL UPDATE THE TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH SUDAS SECTION 1070, IF CONSTRUCTION ACTIVITIES DEVIATE FROM STAGING PLAN PROVIDED. ANY TRAFFIC CONTROL DEVICES OR SAFETY EQUIPMENT NEEDED TO CONSTRUCT THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION PHASING AND TRAFFIC CONTROL PLAN WITH PLANNED DETOURS TO THE CITY OF WINDSOR HEIGHTS PUBLIC SERVICES FOR APPROVAL BEFORE THE START OF ANY CONSTRUCTION ACTIVITIES.
9.

THE LOCATION OF ALL AERIAL AND UNDERGROUND UTILITIES MAY NOT BE INDICATED ON THESE PLANS. WORK SHALL BE COMPLETED IN ACCORDANCE WITH SUDAS SECTION 1070. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DAMAGE TO EXISTING UTILITIES.
10.

IN ACCORDANCE WITH SUDAS SECTION 1070, THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL ITS WORK FROM DAMAGE AND SHALL PROTECT THE JURISDICTION'S PROPERTY AND ADJACENT PRIVATE PROPERTY FROM INJURY OR LOSS ARISING IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL REPAIR OR RESTORE ANY SUCH DAMAGE, INJURY, OR LOSS TO JURISDICTION PROPERTY OR ADJACENT PROPERTY. THE CONTRACTOR SHALL PROTECT TREES AND OTHER PROPERTY NOT MARKED FOR REMOVAL . THE CONTRACTOR SHALL SALVAGE ANY LANDSCAPING WITHIN THE RIGHT OF WAY UPON REQUEST BY THE ADJACENT PROPERTY OWNERS.
11.

THE CONTRACTOR SHALL PRESERVE OR REPLACE ALL PROPERTY MONUMENTS ON THE PROJECT SITE IN ACCORDANCE WITH IOWA STATE CODE SECTION 355.6A AND SUDAS SECTION 1070.
12.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SITE CLEANLINESS. UPON REQUEST BY THE ENGINEER, THE CONTRACTOR SHALL, AT ITS EXPENSE, CLEANUP AND REMOVE ALL REFUSE AND UNUSED MATERIALS OF ANY KIND RESULTING FROM THE WORK INCLUDING CLEANING AND SWEEPING OF ADJACENT STREETS. UPON FAILURE TO DO SO WITHIN THREE WORKING DAYS AFTER SUCH REQUEST BY THE ENGINEER, THE WORK MAY BE DONE BY THE JURISDICTION AND THE COST THERE OF CHARGED TO THE CONTRACTOR AND DEDUCTED FROM ITS FINAL PAYMENT IN ACCORDANCE WITH SUDAS SECTION 1070.
13.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A PROGRESS SCHEDULE THAT WILL ENSURE THE COMPLETION OF THE PROJECT WITHIN THE TIME SPECIFIED. IF IT APPEARS THE RATE OF PROGRESS IS SUCH THAT THE CONTRACT WILL NOT BE COMPLETED WITHIN THE TIME ALLOWED, OR IF THE WORK IS NOT BEING EXECUTED IN A SATISFACTORY AND WORKMANLIKE MANNER, THE ENGINEER MAY ORDER THE CONTRACTOR TO TAKE SUCH STEPS AS NECESSARY TO COMPLETE THE WORK AS SPECIFIED IN THE CONTRACT IN ACCORDANCE WITH SUDAS SECTION 1080.
14.

IF THE PROJECT IS SUBSTANTIALLY COMPLETE AND ONLY CLEANUP AND MINOR WORK ITEMS REMAIN FOR MORE THAN 30 CALENDAR DAYS, THE ENGINEER MAY RESTART CHARGING OF WORKING DAYS OR CHARGE PENALTIES EQUAL TO THE CONTRACT LIQUIDATED DAMAGES UNTIL ALL CORRECTIVE ACTION HAS BEEN COMPLETED IN ACCORDANCE WITH SUDAS SECTION 1080.
15.

CONTRACTOR TO STORE EQUIPMENT WITHIN THE WORK ZONE AND NOT ON THE STREET. EMPLOYEES ARE NOT TO PARK IN AREAS WHERE THEY OCCUPY ON-STREET PARKING FOR RESIDENTS AFFECTED BY CONSTRUCTION.
16.

IN ORDER TO AVOID ANY UNNECESSARY SURFACE BREAKS OR PREMATURE SPALLING, THE CONTRACTOR IS CAUTIONED TO EXERCISE EXTREME CARE WHEN PERFORMING ANY OF THE NECESSARY SAW CUTTING OPERATIONS FOR THE PROPOSED PAVEMENT REMOVAL. ADJACENT PAVEMENT THAT IS CHIPPED OR DAMAGED DUE TO SAW OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S COST IN ACCORDANCE WITH THE PROJECT SPECIFICATION DETAILS FOR STREET EXCAVATION AND PAVEMENT REPLACEMENT. ALL SAW CUTS ADJACENT TO EXISTING PAVEMENT AND CURBS SHALL BE FULL DEPTH.
17.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NOT TO DAMAGE ADJACENT PAVEMENT, SIDEWALKS, DRIVES, MEDIANS, CURBS, STRUCTURES, AND OTHER AREAS NOT DESIGNATED AS PART OF THE PATCHING WORK AREA. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO AREAS NOT DESIGNATED AS PART OF THE PATCHING WORK AT NO COST TO THE OWNER.

UTILITY COORDINATION NOTES:

1.

CONTRACTOR TO POTHOLE EXISTING UTILITIES A MINIMUM OF 3 WEEKS PRIOR TO COMMENCING WORK TO DETERMINE IF ANY CONFLICTS EXIST. THIS IS CONSIDERED INCIDENTAL TO THE PROJECT. IMMEDIATELY REPORT ANY CONFLICTS TO THE ENGINEER.
2.

THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT (800) 292-8989 TO LOCATE EXISTING UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
3.

ANTICIPATED UTILITY CONFLICTS HAVE BEEN IDENTIFIED AND EACH RESPECTIVE UTILITY OWNER HAS BEEN INFORMED OF THE POTENTIAL CONFLICTS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT SITE.
4.

IF A CONFLICT IS DISCOVERED BY THE CONTRACTOR, NOTIFY THE ENGINEER IMMEDIATELY AND COORDINATE WITH OWNER OF UTILITY TO RESOLVE CONFLICT.
5.

UTILITY CONTACT NUMBERS:

WINDSOR HEIGHTS PUBLIC SERVICES (SEWERS)
DES MOINES WATER WORKS
MID-AMERICAN ENERGY (ELECTRIC)
MID-AMERICAN ENERGY (GAS)
MID-AMERICAN ENERGY (ELECTRIC) - EMERGENCY
MID-AMERICAN ENERGY (GAS) - EMERGENCY
MEDIACOM
LUMEN

CARLA SCHUMACHER (515-323-6227)
SCOT ENGER (515-252-6742)
SCOT ENGER (515-252-6742)
1-800-799-4443
1-800-595-5325
KEVIN COLLINS (515-554-2648)
ASHLIE CLEMENTS (906-284-2821)

CSCHUMACHER@DMWWW.COM
SEENGER@MIDAMERICAN.COM
SEENGER@MIDAMERICAN.COM

KCCOLLINS1@MEDIACOMCC.COM
ASHLIE.CLEMENTS@LUMEN.COM

PROJECT SCHEDULE

1.

SUBSTANTIAL COMPLETION: XX/XX/XXXX
LIQUIDATED DAMAGES: \$500 / CALENDAR DAY

PROJECT NOTES:

1.

EXISTING SIDEWALKS WITHIN THE PROJECT ARE TO BE PROTECTED AND PEDESTRIAN ACCESS TO ALL ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
2.

CONTRACTOR SHALL STAGE WORK IN A MANNER TO MINIMIZE IMPACT TO RESIDENTS.
3.

WATER MAIN SHALL EXTEND PAST THE PAVING LIMITS AT STAGE LINES TO ENSURE NO NEW PAVEMENT IS REMOVED.
4.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONSTRUCTION STAKING IN ACCORDANCE WITH SECTION 11.010 OF THE STANDARD SPECIFICATIONS AND SHALL COMPLY WITH IOWA CODE 355 AND IOWA ADMINISTRATIVE CODE SECTION 193C FOR THE REPLACEMENT OF ALL DISTURBED MONUMENTS WITHIN THE PROJECT AREA.
5.

CONTRACTOR SHALL PROPERLY SECURE PROJECT SITE AT THE END OF EACH DAY.
6.

CONTRACTOR OPERATIONS CREATING OBJECTIONABLE LEVELS OF NOISE SHALL NOT BEGIN PRIOR TO 7:00 AM AND SHALL END PRIOR TO 7:00 PM.
7.

ALL DISTURBED AREAS SHALL BE SEEDED AND/OR MULCHED (DEPENDING ON DATE) UPON COMPLETION OF GRADING.
8.

THE CONTRACTOR SHALL LIMIT THEIR ACCESS TO THE PROJECT SITE TO THE STABILIZED ENTRANCE LOCATIONS SHOWN IN THE SWPPP.
9.

ANY TREES AND LANDSCAPING SHALL BE REMOVED ONLY BY APPROVAL OF THE ENGINEER.

STORM WATER POLLUTION PREVENTION PLAN NOTES:

1.

NPDES PERMIT IS NOT REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING EROSION AND UNACCEPTABLE CONSTRUCTION RUNOFF FROM ENTERING STORM SEWERS. CONTRACTOR SHALL PROVIDE MEASURES AS DIRECTED BY ENGINEER. PREVENTATIVE MEASURES ARE INCIDENTAL TO CONSTRUCTION.
2.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS WITHIN THE PROJECT UNTIL STABILIZED. IF UNDESIRABLE VEGETATION IS ESTABLISHED BEFORE THE AREA IS SEEDED/SODDED OR STABILIZED, IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE ALL UNWANTED VEGETATION. FAILURE TO PROVIDE MAINTENANCE WITHIN THREE WORKING DAYS AFTER REQUESTED BY THE ENGINEER, THE WORK MAY BE DONE BY THE JURISDICTION AND THE COST THEREOF CHARGED TO THE CONTRACTOR AND DEDUCTED FROM THEIR FINAL PAYMENT.
3.

ALL DISTURBED AREAS SHALL BE SEEDED AND/OR MULCHED (DEPENDING ON DATE) UPON COMPLETION OF GRADING.
4.

THE CONTRACTOR SHALL LIMIT THEIR ACCESS TO THE PROJECT SITE TO THE STABILIZED ENTRANCE LOCATIONS SHOWN IN THE SWPPP.
5.

CONTACTOR SHALL FOLLOW ALL REQUIREMENTS OF IDNR NPDES GENERAL PERMITS #2.
6.

CONTACTOR SHALL MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY
7.

STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. IN DROUGHT-STRICKEN AREAS AND AREAS THAT HAVE RECENTLY RECEIVED SUCH HIGH AMOUNTS OF RAIN THAT SEEDING WITH FIELD EQUIPMENT IS IMPOSSIBLE AND INITIATING VEGETATIVE STABILIZATION IMMEDIATELY IS INFEASIBLE, ALTERNATIVE STABILIZATION MEASURES MUST BE EMPLOYED AS SPECIFIED BY THE DEPARTMENT. IN LIMITED CIRCUMSTANCES, STABILIZATION MAY NOT BE REQUIRED IF THE INTENDED FUNCTION OF A SPECIFIC AREA OF THE SITE NECESSITATES THAT IT REMAIN DISTURBED.
8.

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;
9.

MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND STORM WATER. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE THE EXPOSURE TO PRECIPITATION AND TO STORM WATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK OF STORM WATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE)
10.

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.
11.

CONCRETE WASHOUTS SHALL BE PROVIDED ON SITE.
12.

QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN STABILIZED WITH A PERENNIAL, VEGETATIVE COVER OF SUFFICIENT DENSITY TO PRECLUDE EROSION AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. UNLESS EROSION IS EVIDENT OR OTHER CONDITIONS WARRANT THEM, REGULAR INSPECTIONS ARE NOT REQUIRED ON AREAS THAT HAVE BEEN STABILIZED WITH A PERENNIAL, VEGETATIVE COVER OF SUFFICIENT DENSITY TO PRECLUDE EROSION.
13.

DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM.
14.

EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
15.

BASED ON THE RESULTS OF THE INSPECTION, POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLANS SHALL BE REVISED AT THE CONSTRUCTION SITE AS APPROPRIATE AS SOON AS PRACTICABLE AFTER THE INSPECTION AND TO THE PLAN AS SOON AS PRACTICABLE AFTER THE INSPECTION BUT IN NO CASE MORE THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF THE PERMITTEE DETERMINES THAT MAKING THESE CHANGES AT THE CONSTRUCTION SITE OR TO THE PLAN LESS THAN 72 HOURS AFTER THE INSPECTION IS IMPRACTICABLE, THE PERMITTEE SHALL DOCUMENT IN THE PLAN WHY IT IS IMPRACTICABLE AND INDICATE AN ESTIMATED DATE BY WHICH THE CHANGES WILL BE MADE.
16.

A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS AFTER FINAL STABILIZATION HAS BEEN ACHIEVED AND A NOTICE OF DISCONTINUATION HAS BEEN SUBMITTED TO THE DEPARTMENT.

TRAFFIC CONTROL NOTES:

1.

TRAFFIC CONTROL LAYOUTS SHOWN ON THESE PLANS ARE GENERAL TRAFFIC CONTROL LAYOUTS FOR INFORMATION ONLY.
2.

THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 1070, 2.06 'TRAFFIC CONTROL' OF THE STANDARD SPECIFICATIONS. ANY TRAFFIC CONTROL DEVICES OR SAFETY EQUIPMENT NEEDED TO CONSTRUCT THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION PHASING AND TRAFFIC CONTROL PLAN WITH PLANNED DETOURS, IF APPLICABLE, TO THE ENGINEER FOR APPROVAL BEFORE THE START OF ANY CONSTRUCTION ACTIVITIES.
3.

IF NECESSARY, STREETS WILL BE CLOSED IN ACCORDANCE WITH SECTION 1070, 2.06 'TRAFFIC CONTROL' OF THE STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL PLANS MUST BE REVIEWED AND APPROVED BY ENGINEER.
4.

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
5.

PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF 3 DAYS OR LESS ALL OTHER TRAFFIC CONTROL SHALL BE POST MOUNTED.
6.

THE PROPOSED SIGNAGE MAY BE MODIFIED TO MEET FIELD CONDITIONS, PREVENT OBSTRUCTIONS AND TO ACCOMMODATE CONSTRUCTION SCHEDULING UPON APPROVAL OF THE PROJECT ENGINEER
7.

ORANGE SAFETY FENCE SHALL BE PLACED ENTIRELY ACROSS THE TRAVELED PORTION OF THE ROADWAY AT ALL LOCATIONS WHERE TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS ARE USED.
8.

SIGNAGE MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.
9.

ALL CONSTRUCTION SIGNS SHALL BE DIAMOND GRADE FLUORESCENT ORANGE OR WHITE V.I.P. SHEETING OR EQUIVALENT. (IOWA DOT TYPE VII SHEETING).
10.

AT THE TIME OF INITIAL SETUP OR AT THE TIME OF MAJOR STAGE CHANGES, 100 PERCENT OF EACH TYPE OF DEVICE (SIGNS, CONES, TUBULAR MARKERS, DRUMS, BARRICADES, VERTICAL PANELS, CHANGEABLE MESSAGE SIGNS, AND PAVEMENT MARKINGS) SHALL BE CLASSIFIED AS ACCEPTABLE BY THE REQUIREMENT OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), "QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES 1992." THROUGHOUT THE DURATION OF THE PROJECT, UNACCEPTABLE DEVICES OR SITUATIONS THAT ARE FOUND ON THE JOBSITE AS DETERMINED BY BEFORE MENTIONED PUBLICATION SHALL BE REPLACED OR THE SITUATION CORRECTED WITHIN 12 HOURS OF INITIAL NOTIFICATIONS BY THE ENGINEER.
11.

THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER, AND THE CONTRACTOR SHALL PROVIDE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER.
12.

AT EACH SIDEWALK CLOSURE LOCATION PLACE TYPE II BARRICADES WITH "SIDEWALK CLOSED" SIGNS AT EACH CLOSURE END AND PLACE "SIDEWALK CLOSED AHEAD" SIGNS ALONG THE SIDEWALK AT NEAREST STREET INTERSECTIONS ON EACH SIDE OF THE CLOSURE LOCATION IN ACCORDANCE WITH THE MUTCD.



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68TH STREET SOUTH RECONSTRUCTION

GENERAL NOTES

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PAVING NOTES:

1. PAVING SHALL BE COMPLETED IN ACCORDANCE WITH DIVISION 7 OF THE SPECIFICATIONS.
2. THE CONTRACTOR SHALL SUBMIT INFORMATION TO THE ENGINEER FOR APPROVAL IN ACCORDANCE WITH SECTIONS 1050, 1.05 AND 7010, 1.03 OF THE STANDARD SPECIFICATIONS:

a. PCC PAVING MIX DESIGN

b. MATURITY CURVES FOR PAVING MIXES AND MATURITY READING RESULTS
3. PAVEMENT DESIGN SHALL INCLUDE A MINIMUM STRENGTH OF 4,000 PSI.
4. QUALITY CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 7010, 3.08 'QUALITY CONTROL' OF THE STANDARD SPECIFICATIONS.
5. IN ACCORDANCE WITH SECTION 7010, 3.02, K OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR SHALL CLEAN AND SEAL ALL JOINTS BEFORE ANY PORTION OF THE NEWLY CONSTRUCTED PAVEMENT IS OPENED TO THE CONTRACTOR'S EQUIPMENT.
6. THE CONTRACTOR SHALL OPEN NEWLY CONSTRUCTED PAVEMENT TO TRAFFIC IN ACCORDANCE WITH SECTION 7010, 3.06 OF THE STANDARD SPECIFICATIONS. ALL NEWLY CONSTRUCTED PAVEMENT SHALL BE SCRAPPED AND SWEEP CLEAN PRIOR TO OPENING TO TRAFFIC.
7. THE CONTRACTOR SHALL PROTECT PAVEMENT IN ACCORDANCE WITH SECTION 7010, 3.05 OF THE STANDARD SPECIFICATIONS AND SHALL NOT USE NEWLY CONSTRUCTED PAVEMENT AS AN AREA OF STOCKPILING MATERIALS.
8. DROP CURBS SHALL BE CONSTRUCTED AT INTERSECTIONS FOR PEDESTRIAN RAMPS AND SHALL BE CONSIDERED INCIDENTAL TO PAVING.
9. PEDESTRIAN RAMPS SHALL INCLUDE "DETECTABLE WARNING" PLATE.
10. ALL UTILITY FIXTURES (WATER VALVE BOXES, MANHOLES, AND STORM SEWER INTAKES) SHALL BE SET TO THEIR CORRESPONDING PAVEMENT ELEVATIONS.

GRADING NOTES

1. ALL GRADING OPERATIONS SHALL BE COMPLETED IN ACCORDANCE WITH DIVISION 2 OF THE SPECIFICATIONS.
2. THE PROPOSED CONTOURS ARE SHOWN ARE TO FINISH GROUND/TOP OF PAVEMENT.
3. THE CONTRACTOR SHALL SHAPE GRADE AREAS TO MAINTAIN SURFACE DRAINAGE AT ALL TIMES.
4. THE CONTRACTOR SHALL BACKFILL CURBS AS SOON AS POSSIBLE UPON COMPLETION OF CURB INSTALLATION.
5. DEWATERING (IF NECESSARY) IS CONTRACTOR'S RESPONSIBILITY AND SHALL BE CONSIDERED INCIDENTAL.
6. CONTRACTOR SHALL MINIMIZE COMPACTION OF TOPSOIL TO THE EXTENT PRACTICABLE.

SANITARY SEWER NOTES

1. SANITARY SEWER INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH DIVISIONS 3, 4, AND 6 OF THE SPECIFICATIONS
2. PRIOR TO INSTALLING PIPE, THE CONTRACTOR SHALL PLUG THE DOWNSTREAM CONNECTION POINTS AND LEAVE PLUGGED UNTIL NEW SEWER PIPE AND MANHOLE CASTINGS ARE IN PLACE. ALL WATER SHALL BE PUMPED OUT AND THE SEWER SHALL BE CLEAN BEFORE REMOVING PLUG.
3. SANITARY SEWER BEDDING SHALL BE CLASS F-3 BEDDING UNLESS OTHERWISE SPECIFIED.
4. SANITARY SEWER SERVICE STUBS SHALL BE STUBBED TO 10 FEET BEYOND THE ROW OF WAY.
5. MANHOLE CASTINGS IN SHALL BE [2 PIECE FIXED CASTINGS/ 3 PIECE FLOATING CASTING]. ALL MANHOLE CASTINGS SHALL BE BOLTED TO THE STRUCTURE AT ALL ATTACHMENT HOLE LOCATIONS IN THE CASTING. ALL CASTINGS SHALL COMPLY WITH FIGURES SW-601. CONCRETE BOX OUTS FOR MANHOLES IN PCC PAVING SHALL COMPLY WITH FIGURE PV-103. CONCRETE BOX OUTS FOR MANHOLES IN HMA PAVING SHALL COMPLY WITH FIGURE PV-201. ALL MANHOLES IN PAVING SHALL BE GASKETED.
6. UPON COMPLETION OF THE SANITARY SEWER MAIN INSTALLATION, THE CONTRACTOR SHALL FURNISH THE CITY A FLASH DRIVE OF THE TELEVISED PIPE INSPECTION, TO BE USED AS A BASIS OF ACCEPTANCE OF THE WORK. TELEVISED PIPE INSPECTION SHALL BE COMPLETED WITHIN 30 DAYS OF THE PIPE INSTALLATION AND PRIOR TO THE PLACEMENT OF ANY PAVING.

STORM SEWER NOTES

1. STORM SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH DIVISIONS 3, 4, AND 6 OF THE SPECIFICATIONS.
2. STORM SEWER BEDDING SHALL BE CLASS R-2.
3. MANHOLE CASTINGS IN PAVEMENT SHALL BE 3 PIECE FLOATING CASTING.ALL CASTINGS SHALL COMPLY WITH FIGURES SW-602. CONCRETE BOX OUTS FOR MANHOLES IN PCC PAVING SHALL COMPLY WITH FIGURE PV-103. CONCRETE BOX OUTS FOR MANHOLES IN HMA PAVING SHALL COMPLY WITH FIGURE PV-201. ALL MANHOLES IN PAVING SHALL BE GASKETED.
4. STANDARD 48-INCH MANHOLES SHALL BE TYPE SW-301 (SANITARY SEWER), 60 INCH OR LARGER SHALL BE TYPE SW-401 (STORM SEWER).
5. INTAKE CASTINGS SHALL BE SW-603 TYPE R OR Q.
6. FOOTINGS SHALL BE INSTALLED UNDER ALL FLARED END SECTIONS IN ACCORDANCE WITH SECTION 4030 OF THE SPECIFICATIONS AND WILL BE CONSIDERED INCIDENTAL TO FLARED END SECTIONS.
7. UPON COMPLETION OF THE STORM SEWER INSTALLATION, THE CONTRACTOR SHALL FURNISH THE CITY A FLASH DRIVE OF THE TELEVISED PIPE INSPECTION, TO BE USED AS A BASIS OF ACCEPTANCE OF THE WORK. TELEVISED PIPE INSPECTION SHALL BE COMPLETED WITHIN 30 DAYS OF PIPE INSTALLATION AND PRIOR TO THE PLACEMENT OF ANY PAVING.
8. RCP PLUGS SHALL BE CONSIDERED INCIDENTAL TO STORM SEWER CONSTRUCTION.
9. THE CONTRACTOR SHALL REPAIR ANY FIELD TILE ENCOUNTERED DURING CONSTRUCTION OF THIS PROJECT (WHETHER SHOWN ON THE PLAN OR NOT) BY SPLICING OR CONNECTING THE TILE TO THE NEW STORM SEWER SYSTEM.

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CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET SOUTH RECONSTRUCTION

GENERAL NOTES

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ESTIMATED PROJECT QUANTITIES - BASE BID								
ITEM NO.	ITEM CODE	ITEM	UNIT	CITY	AS-BUILT QTY.	DMWW	AS-BUILT QTY.	TOTAL EST. QUANTITY
1	2010-C	CLEARING AND GRUBBING	LS	1		0		1
2	2010-D-1	TOPSOIL, ON-SITE	CY	620		0		620
3	2010-E	EXCAVATION, CLASS 10	CY	700		0		700
4	2010-F	BELOW GRADE EXCAVATION (CORE OUT)	CY	0		0		0
5	2010-G	SUBGRADE PREPARATION	SY	7900		0		7900
6	2010-I	SUBGRADE TREATMENT, POLYMER GRID	SY	0		0		0
7	2010-J	SUBBASE, MODIFIED, 8 INCHES	SY	7900		0		7900
8	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	0		0		0
9	4020-A-1	STORM SEWER, TRENCHED, PP, 8 INCH	LF	12		0		12
10	4020-A-1	STORM SEWER, TRENCHED, 12 INCH	LF	123		0		123
11	4020-A-1	STORM SEWER, TRENCHED, 15 INCH	LF	1458		0		1458
12	4020-A-1	STORM SEWER, TRENCHED, 18 INCH	LF	16		0		16
13	4020-A-1	STORM SEWER, TRENCHED, 36 INCH	LF	60		0		60
14	4020-A-1	STORM SEWER, TRENCHED, RCP, 37" X 23" ARCH	LF	50		0		50
15	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36 INCH	LF	348		0		348
16	4040-A	SUBDRAIN, PERFORATED HDPE, 6 INCH	LF	3330		0		3330
17	4040-C-1	SUBDRAIN CLEANOUT, TYPE A-1, 6 INCH	EA	16		0		16
18	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6 INCH	EA	14		0		14
19	4050-H-1	SPOT REPAIRS BY PIPE REPLACEMENT, PVC, 4 INCH	EA	2		0		2
20	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 6 INCH WITH TRACER WIRE	LF	0		10		10
21	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE	LF	0		1840		1840
22	SPEC. PROV.	FITTING BY WEIGHT, DUCTILE IRON	LB	0		6420		6420
23	SPEC. PROV.	WATER SERVICE TRANSFER, COPPER, 1 INCH , SAME SIDE	EA	0		23		23
24	SPEC. PROV.	WATER SERVICE TRANSFER, COPPER, 1 INCH , OPPOSITE SIDE	EA	0		26		26
25	SPEC. PROV.	WATER MAIN REMOVAL	LF	0		260		260
26	SPEC. PROV.	VALVE, GATE, 6 INCH	EA	0		1		1
27	SPEC. PROV.	VALVE, GATE, 8 INCH	EA	0		4		4
28	SPEC. PROV.	FIRE HYDRANT ASSEMBLY	EA	0		5		5
29	SPEC. PROV.	FLUSHING DEVICE (BLOW OFF), 2 INCH	EA	0		2		2
30	SPEC. PROV.	FIRE HYDRANT ASSEMBLY REMOVAL	EA	0		5		5
31	SPEC. PROV.	VALVE BOX REMOVAL	EA	0		3		3
32	SPEC. PROV.	TAP FEE, 1", REPLACE TAP FOR WATER SERVICE	EA	0		49		49
33	SPEC. PROV.	PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE	EA	0		2		2
34	6010-A	STORM MANHOLE, SW-401, 72 INCH	EA	2		0		2
35	6010-B	INTAKE, SW-501	EA	2		0		2
36	6010-B	INTAKE, SW-503	EA	1		0		1
37	6010-B	INTAKE, SW-505	EA	10		0		10
38	6010-B	INTAKE, SW-506	EA	1		0		1
39	6010-B	INTAKE, SW-507	EA	2		0		2
40	6010-B	CATCH BASIN, 18 INCH	EA	2		0		2
41	6010-B	INTAKE, SW-516	EA	1		0		1
42	6010-E	SANITARY MANHOLE ADJUSTMENT, MINOR	EA	6		0		6
43	6010-E	STORM MANHOLE ADJUSTMENT, MINOR	EA	1		0		1
44	6010-F	SANITARY MANHOLE ADJUSTMENT, MAJOR	EA	2		0		2
45	6010-G	CONNECTION TO EXISTING MANHOLE	EA	1		0		1
46	6010-H	REMOVE INTAKE	EA	9		0		9
47	7010-A	PAVEMENT, PCC, 7 INCH	SY	6200		0		6200
48	7010-999-A	JOINT PREVENTATIVE SEALANT	LF	0		0		0
49	7010-N	COLD WEATHER PROTECTION	SY	1800		0		1800
50	7030-A-1	REMOVAL OF SIDEWALK	SY	100		0		100
51	7030-A-3	REMOVAL OF DRIVEWAY	SY	1190		0		1190
52	7030-E	SIDEWALK, PCC, 4 INCH	SY	820		0		820
53	7030-E	SIDEWALK, PCC, 4 INCH, REINFORCED	SY	10		0		10
54	7030-E	SIDEWALK, PCC, 6 INCH	SY	130		0		130
55	7030-G	DETECTABLE WARNING	SF	96		0		96
56	7030-H-1	DRIVEWAY, PAVED, PCC, 6 INCH	SY	970		0		970
57	7040-H	PAVEMENT REMOVAL	SY	5630		0		5630
58	8020-B	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	STA	2		0		2
59	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1		0		1

60	8040-A	TRAFFIC SIGNS, TYPE A	EA	13		0		13
61	8040-D	PERFORATED SQUARE STEEL TUBE POSTS	EA	13		0		13
62	8040-J	REMOVE AND SALVAGE TRAFFIC SIGN ASSEMBLY	EA	0		0		0
63	9010-D	WATERING	MGAL	91		0		91
64	9020-A	SOD	SQ	342		0		342
65	9030-B	PLANTS WITH WARRANTY, ORNAMENTAL TREE	EA	2		0		2
66	9030-B	PLANTS WITH WARRANTY, DECIDUOUS TREE	EA	2		0		2
67	9040-A-1	SWPPP PREPARATION	LS	1		0		1
68	9040-A-2	SWPPP MANAGEMENT	LS	1		0		1
69	9040-D-1	FILTER SOCK, 9 INCH	LF	6000		0		6000
70	9040-O-1	STABILIZED CONSTRUCTION ENTRANCE	SY	300		0		300
71	9040-Q-2	EROSION CONTROL MULCHING, HYDRO MULCHING	AC	1		0		1
72	9040-T-1	INLET PROTECTION DEVICE, MAINTENCE, AND REMOVAL	EA	31		0		31
73	9070-A	MODULAR BLOCK RETAINING WALL	SF	160		0		160
74	11020-A	MOBILIZATION	LS	1		0		1
75	11030-A	MAINTENANCE OF POSTAL SERVICE	LS	1		0		1
76	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1		0		1
77	11040-A	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS	LS	1		0		1
78	11050-A	CONCRETE WASHOUT	LS	1		0		1



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68TH STREET SOUTH RECONSTRUCTION

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ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
1	2010-C	<u>CLEARING AND GRUBBING</u> THIS ITEM SHALL INCLUDE ALL NECESSARY TRIMMING AND CLEARING AND GRUBBING TO COMPLETE CONSTRUCTION. PROTECT ALL TREES NOT MARKED FOR REMOVAL. CONTRACTOR TO DETERMINE ANY AND ALL TRIMMING NEEDS REQUIRED FOR CONSTRUCTION OPERATIONS, INCLUDING ANY ROOTS ENCOUNTERED.
2	2010-D-1	<u>TOPSOIL, ON-SITE</u> TOPSOIL WITHIN THE GRADING LIMITS OF THE PROJECT SHALL BE STRIPPED, SALVAGED, AND RESPREAD AS PER PLAN TO FACILITATE ALL PROPOSED SECTIONS. ALL BORROW SHALL BE PROVIDED BY THE CONTRACTOR. EXCESS OR UNSUITABLE EXCAVATED MATERIAL WILL BECOME PROPERTY OF THE CONTRACTOR AND WILL BE HAULED OFF-SITE INCIDENTAL TO THE ITEM. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR OVERHAUL OF WASTE. RAW CUT = X CY, RAW FILL = X CY, ADJUSTED FILL (1.30 FACTOR) = X CY RAW EARTHWORK QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY ARE A COMPARISON OF EXISTING CONDITIONS AND PROPOSED CONDITIONS AND MAY INCLUDE MATERIALS AND OPERATIONS PAID FOR UNDER OTHER BID ITEMS E.G. PAVEMENT REMOVAL, STORM SEWER TRENCHED, PCC PAVEMENT, SUBBASE, TOPSOIL, COMPOST AMENDMENT, ETC. MEASUREMENT WILL NOT BE MADE AND QUANTITY PAID WILL BE ON A PERCENT OF ITEM COMPLETE.
3	2010-E	<u>EXCAVATION, CLASS 10</u> THIS ITEM SHALL INCLUDE THE REMOVAL OF EXISTING SOIL, HAULING, DISPOSAL/EXPORT AND RE-GRADING AS PER PLAN TO FACILITATE ALL PROPOSED SECTIONS. ALL BORROW SHALL BE PROVIDED BY THE CONTRACTOR. EXCESS OR UNSUITABLE EXCAVATED MATERIAL WILL BECOME PROPERTY OF THE CONTRACTOR AND WILL BE HAULED OFF-SITE INCIDENTAL TO THE ITEM. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR OVERHAUL OF WASTE. RAW CUT = X CY, RAW FILL = X CY, ADJUSTED FILL (1.30 FACTOR) = X CY RAW EARTHWORK QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY ARE A COMPARISON OF EXISTING CONDITIONS AND PROPOSED CONDITIONS AND MAY INCLUDE MATERIALS AND OPERATIONS PAID FOR UNDER OTHER BID ITEMS E.G. PAVEMENT REMOVAL, STORM SEWER TRENCHED, PCC PAVEMENT, SUBBASE, TOPSOIL, COMPOST AMENDMENT, ETC. MEASUREMENT WILL NOT BE MADE AND QUANTITY PAID WILL BE ON A PERCENT OF ITEM COMPLETE.
4	2010-F	<u>BELOW GRADE EXCAVATION (CORE OUT)</u> BID ITEM IS TO ESTABLISH A UNIT PRICE IF UNSUITABLE OR UNSTABLE MATERIAL IS ENCOUNTERED. PAYMENT INCLUDES, BUT IS NOT LIMITED TO, EQUIPMENT, TOOLS, LABOR, DISPOSAL OF UNSUITABLE MATERIALS, DEWATERING, DRYING, FURNISHING, AND PLACEMENT OF RECYCLED CONCRETE OR MODIFIED OR APPROVED EQUAL AS REQUIRED BY THE ENGINEER, COMPACTION AND FINISHING OF THE EXCAVATED AREA, AND ALL INCIDENTAL WORK AS MAY BE REQUIRED. TO BE USED AS DETERMINED BY ENGINEER.
5	2010-G	<u>SUBGRADE PREPARATION</u> TO BE USED AS APPROVED BY ENGINEER. CONTRACTOR SHALL COMPACT SUBGRADE AND PROOF ROLL. IF SUBGRADE PASSES PROOF ROLL, NO SUBGRADE PREPARATION WILL BE REQUIRED. IF REQUIRED, SUBGRADE PREPARATION MUST BE COMPLETED IN 2 - 6" LIFTS. UNDER PROPOSED PAVEMENT, PLUS 4 FEET ON EACH SIDE. MOISTURE AND DENSITY TESTING WILL BE PROVIDED BY THE OWNER. CHECKING OF SUBGRADE WILL BE PERFORMED WITH ROUGH GRADING STAKES SET 25' APART.
6	2010-I	<u>SUBGRADE TREATMENT, POLYMER GRID</u> THIS ITEM WILL BE USED ONLY WHEN THE ENGINEER DETERMINES IT IS REQUIRED TO PROVIDE SUITABLE SUBGRADE. LOCATION(S) OF TREATMENT, IF ANY, WILL BE SPECIFIED BY THE ENGINEER. MATERIAL TO HAVE NO CHUNKS LARGER THAN 2 INCHES. HAULING OFF ANY EXCESS MATERIAL GENERATED DURING THE PROCESS SHALL BE CONSIDERED INCIDENTAL. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
7	2010-J	<u>SUBBASE, MODIFIED, 8 INCHES</u> THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, COMPACTION OF SUBGRADE, FURNISHING, PLACING, COMPACTING, AND TRIMMING TO THE PROPER GRADE.
8	3010-D	<u>REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL</u> UNSUITABLE BACKFILL MATERIAL SHALL BE REPLACED WITH GRANULAR BACKFILL OR OTHER APPROVED MATERIAL AS APPROVED BY THE ENGINEER. GRANULAR BACKFILL IS INCIDENTAL TO THIS ITEM. THIS ITEM WILL BE PAID BY THE CUBIC YARD - LOOSE VOLUME. NO RECYCLED CONCRETE OR RIP RAP ALLOWED. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
9	4020-A-1	<u>STORM SEWER, TRENCHED, PP, 8 INCH</u>
10	4020-A-1	<u>STORM SEWER, TRENCHED, 12 INCH</u> STORM PIPE SHALL BE REINFORCED CONCRETE PIPE OR POLYPROPYLENE. INCLUDES FLEXIBLE GASKET JOINTS AT WATERMAIN CROSSINGS. VIDEO INSPECTION TO OCCUR PRIOR TO PAVING PER SUDAS 4060. POLYPROPYLENE STORM SEWER PIPE SHALL MEET SUDAS STANDARD SPECIFICATIONS, SECTION 4020, 2.01 - L AND SHALL BE INSALLED IN ACCORDANCE WITH SUDAS FOLLOWING FIGURE 3010.103 (SW-103).
11	4020-A-1	<u>STORM SEWER, TRENCHED, 15 INCH</u> SEE BID ITEM #10
12	4020-A-1	<u>STORM SEWER, TRENCHED, 18 INCH</u> SEE BID ITEM #10
13	4020-A-1	<u>STORM SEWER, TRENCHED, 36 INCH</u> SEE BID ITEM #10
14	4020-A-1	<u>STORM SEWER, TRENCHED, RCP, 37" X 23" ARCH</u>

15	4020-D	<u>REMOVAL OF STORM SEWER, LESS THAN 36 INCH</u> UNIT PRICE INCLUDEDES, REMOVAL, DISPOSAL, AND FURNISHING, PLACING, AND COMPACTING BACKFILL MATERIAL.
16	4040-A	<u>SUBDRAIN, PERFORATED HDPE, 6 INCH</u> THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, TRENCH EXCAVATION, FURNISHING AND PLACEMENT OF BEDDING AND BACKFILL MATERIAL, ENGINEERING FABRIC, CONNECTORS, AND ELBOWS AND TEES. THE LENGTH OF ELBOWS AND TEES OF THE PIPES INSTALLED WILL BE INCLUDED IN THE LENGTH OF PIPE MEASURED. POTHOLE FOR ALL EXISTING UTILITIES PRIOR TO SUBDRAIN INSTALLATION TO DETERMINE WHERE SUBDRAIN CAN BE PLACED. POTHOLING SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
17	4040-C-1	<u>SUBDRAIN CLEANOUT, TYPE A-1, 6 INCH</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, TRENCH EXCAVATION; FURNISHING CLEANOUT AND LID; AND FURNISHING, PLACING, AND COMPACTING BEDDING AND BACKFILL MATERIAL.
18	4040-D-1	<u>SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6 INCH</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, PIPE, NON-SHRINK GROUT, COUPLING BANDS, AND RODENT GUARDS FOR PIPES 6 INCHES OR SMALLER.
19	4050-H-1	<u>SPOT REPAIRS BY PIPE REPLACEMENT, PVC, 4 INCH</u> THIS ITEM INCLUDES, BUT NOT LIMITED TO, REMOVAL OF EXISTING SANITARY SERVICE PIPE, TRENCH EXCAVATION, FURNISHING NEW PIPE, BENDS, FITTINGS AND BEDDING MATERIAL, INSTALLATION OF NEW WYE AT THE MAIN IF NEEDED, PLACING AND COMPACTING BACKFILL MATERIAL, CONNECTION TO EXISTING SERVICE AND MAIN, COMPACTION, TESTING AND INSPECTION. REPAIR LENGTH IS FROM SANITARY SEWER MAIN TO THE RIGHT-OF-WAY. RESIDENTS TO BE INFORMED A MINIMUM OF 48 HOURS PRIOR TO WORK ON THAT SERVICE. VISUAL INSPECTION BY ENGINEER IS REQUIRED. QUANTITY IS ESTIMATED TO ESTABLISH UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
20	SPEC. PROV.	<u>WATER MAIN, TRENCHED, PVC C900 (DR 18), 6 INCH WITH TRACER WIRE</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL C900 PVC PIPE OF SPECIFIED SIZE, TYPE, AND RESTRAINT IN AN OPEN TRENCH. CONTRACTOR'S EXCAVATION WILL BE IN ACCORDANCE WITH DES MOINES WATER WORKS (DMWW) RULES AND REGULATIONS LOCATED AT WWW.DMWW.COM AND OSHA REQUIREMENTS. WORK INCLUDES, BUT IS NOT LIMITED TO, TRENCH EXCAVATION AND SHORING, UTILITY LOCATION AND PROTECTION, DEWATERING, FURNISHING AND INSTALLING PIPE, PLACING AND COMPACTING BEDDING AND BACKFILL MATERIAL, FURNISHING AND INSTALLING TRACER SYSTEM, PRESSURE TESTING, AND DISINFECTION ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS. THE ENGINEER WILL MEASURE THE LENGTH OF PIPE INSTALLED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE TO THE NEAREST 0.1 FOOT OF PVC PIPE INSTALLED AS MEASURED. DES MOINES WATER WORKS SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY SHUTDOWN. DES MOINES WATER WORKS SHALL OPERATE ALL EXISTING VALVES. THE CONTRACTOR SHALL NOT OPERATE EXISTING VALVES. A MINIMUM OF 24 HOURS NOTICE SHALL BE GIVEN TO THE AFFECTED PROPERTIES INCLUDING DOOR TO DOOR COMMUNICATIONS AND DOOR KNOCKERS LEFT BEHIND. A MAXIMUM OF 2 HOURS OF SHUTDOWN FOR ANY SINGLE BUILDING WILL BE ALLOWED WHEN SWITCHING A SERVICE TO THE NEW WATER MAIN.
21	SPEC. PROV.	<u>WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE</u> SEE BID ITEM #20
22	SPEC. PROV.	<u>FITTING BY WEIGHT, DUCTILE IRON</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL DI FITTINGS OF SPECIFIED SIZE AND TYPE INCLUDING EXCAVATION, PIPE BEDDING, POLYETHYLENE ENCASEMENT, THRUST RESTRAINT, TRACER WIRE SYSTEM, BACKFILL, COMPACTION, PRESSURE TESTING, AND DISINFECTION, ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER POUND FOR EACH FITTING INSTALLED. DETERMINATION OF THE TOTAL WEIGHT OF FITTINGS, IN POUNDS, SHALL BE BASED ON THE STANDARD FITTING WEIGHTS PUBLISHED IN AWWA C153 FOR DUCTILE IRON COMPACT FITTINGS.
23	SPEC. PROV.	<u>WATER SERVICE TRANSFER, COPPER, 1 INCH , SAME SIDE</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO PREPARE EXCAVATION FOR THE TAP AND TO INSTALL NEW 1-INCH WATER SERVICE USING OPEN CUT METHOD FROM THE NEW WATER MAIN CONNECTING TO THE EXISTING WATER SERVICE ON THE BUILDING SIDE OF THE NEW STOP BOX IN ACCORDANCE WITH DMWW RULES AND REGULATIONS LOCATED AT WWW.DMWW.COM. A.Y MCDONALD CURB STOP RECEPTACLE #5639 SHALL BE USE FOR CURB STIOS WITHIN SIDEWALK OR DRIVEWAYS. WORK INCLUDES, BUT IS NOT LIMITED TO, CORPORATION ELBOW, COPPER PIPE, NEW CURB STOP AND STOP BOX, AND COUPLINGS NEEDED TO CONNECT TO EXISTING SERVICE. WORK ALSO INCLUDES EXCAVATION WITH SHORING IN ACCORDANCE WITH DMWW RULES AND REGULATIONS AND OSHA REQUIREMENTS, BACKFILL, COMPACTION AND SURFACE RESTORATION. CONTRACTOR IS REQUIRED TO COMPACT BACKFILL IN TAP HOLE AND TRENCH USING APPROPRIATELY SIZED EQUIPMENT TO OBTAIN REQUIRED COMPACTION, INCLUDING HANDHELD COMPACTION DEVICES. COST FOR REPLACEMENT OF UNSUITABLE BACKFILL WILL BE PAID BY THE CONTRACTOR. A MAXIMUM OF 2 HOURS OF SHUTDOWN FOR ANY SINGLE BUILDING WILL BE ALLOWED WHEN SWITCHING A SERVICE TO THE NEW WATER MAIN.

24	SPEC. PROV.	<u>WATER SERVICE TRANSFER, COPPER, 1 INCH , OPPOSITE SIDE</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO PREPARE EXCAVATION FOR THE TAP AND TO INSTALL NEW 1-INCH WATER SERVICE USING OPEN CUT METHOD FROM THE NEW WATER MAIN CONNECTING TO THE EXISTING WATER SERVICE ON THE BUILDING SIDE OF THE NEW STOP BOX IN ACCORDANCE WITH DMWW RULES AND REGULATIONS LOCATED AT WWW.DMWW.COM. A.Y MCDONALD CURB STOP RECEPTACLE #5639 SHALL BE USE FOR CURB STIOS WITHIN SIDEWALK OR DRIVEWAYS. WORK INCLUDES, BUT IS NOT LIMITED TO, CORPORATION ELBOW, COPPER PIPE, NEW CURB STOP AND STOP BOX, AND COUPLINGS NEEDED TO CONNECT TO EXISTING SERVICE. WORK ALSO INCLUDES EXCAVATION WITH SHORING IN ACCORDANCE WITH DMWW RULES AND REGULATIONS AND OSHA REQUIREMENTS, BACKFILL, COMPACTION AND SURFACE RESTORATION. CONTRACTOR IS REQUIRED TO COMPACT BACKFILL IN TAP HOLE AND TRENCH USING APPROPRIATELY SIZED EQUIPMENT TO OBTAIN REQUIRED COMPACTION, INCLUDING HANDHELD COMPACTION DEVICES. COST FOR REPLACEMENT OF UNSUITABLE BACKFILL WILL BE PAID BY THE CONTRACTOR. A MAXIMUM OF 2 HOURS OF SHUTDOWN FOR ANY SINGLE BUILDING WILL BE ALLOWED WHEN SWITCHING A SERVICE TO THE NEW WATER MAIN.
25	SPEC. PROV.	<u>WATER MAIN REMOVAL</u> EXISTING PIPE SHALL NOT BE REMOVED UNTIL NEW WATERMAIN INSTALLATION IS TO BE DETERMINED TO BE COMPLETE BY DMWW.
26	SPEC. PROV.	<u>VALVE, GATE, 6 INCH</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL VALVE OF SPECIFIED SIZE AND TYPE WITH VALVE JOINTS, RETAINER GLANDS, VALVE BOXES, VALVE BOX ADAPTER, TRACER WIRE, POLYETHYLENE ENCASEMENT MATERIAL AND THRUST RESTRAINT INCLUDING EXCAVATION, PIPE BEDDING, BACKFILL, COMPACTION, PRESSURE TESTING AND DISINFECTION, ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS.
27	SPEC. PROV.	<u>VALVE, GATE, 8 INCH</u> SEE BID ITEM #26
28	SPEC. PROV.	<u>FIRE HYDRANT ASSEMBLY</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL FIRE HYDRANT, MECHANICAL JOINT BY ANCHOR JOINT (MJ X AJ) TEE OR ANCHOR SPOOL, 6-INCH VALVE, VALVE BOX, VALVE BOX ADAPTER, 6-INCH DUCTILE IRON RESTRAINED JOINT PIPING AS REQUIRED, FITTINGS AS REQUIRED TO COMPLETE CONNECTION, BONDING CABLES, POLYETHYLENE ENCASEMENT, THRUST BLOCK, TRACER WIRE SYSTEM WITH RECEPTACLE POST INCLUDING EXCAVATION, BACKFILL, COMPACTION, PRESSURE TESTING AND DISINFECTION, ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS. THE ENGINEER WILL COUNT THE NUMBER OF FIRE HYDRANTS INSTALLED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR EACH FIRE HYDRANT INSTALLED.
29	SPEC. PROV.	<u>FLUSHING DEVICE (BLOW OFF), 2 INCH</u>
30	SPEC. PROV.	<u>FIRE HYDRANT ASSEMBLY REMOVAL</u>
31	SPEC. PROV.	<u>VALVE BOX REMOVAL</u>
32	SPEC. PROV.	<u>TAP FEE, 1", REPLACE TAP FOR WATER SERVICE</u> PLUMBER'S PERFORMING WATER SERVICE INSTALLATION ARE REQUIRED TO SCHEDULE TAP BY CALLING DMWW CUSTOMER SERVICE 24 HOURS PRIOR TO TAP AT 515-283-8700. CONTRACTOR WILL PAY TAP FEE. CONTRACTOR'S PLUMBER MUST NOT HAVE PAST DUE ACCOUNTS WITH DMWW AT TIME OF TAP REQUEST OR THE TAP WILL BE DENIED. PLUMBER WILL BE REQUIRED TO SUPPLY A SURETY BOND WITH A MINIMUM VALUE OF \$20,000 (BOND MUST BE UPDATED YEARLY UNLESS IT IS A CONTINUOUS BOND). PLUMBER WILL PROVIDE PLUMBING PERMIT NUMBER FROM CITY OR COUNTY WHERE PROJECT IS LOCATED AND PROPERTY ADDRESS WHERE REPLACEMENT TAPS ARE REQUIRED. THE ENGINEER WILL COUNT THE NUMBER OF 1-INCH REPLACEMENT TAPS. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR EACH 1-INCH REPLACEMENT TAP.
33	SPEC. PROV.	<u>PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO PREPARE EXCAVATION FOR INSTALLATION OF THE TAPPING SLEEVE AND VALVE BY DMWW. WORK INCLUDES, BUT IS NOT LIMITED TO, EXCAVATION, SHORING, CLEANING THE MAIN PRIOR TO TAPPING, POLYETHYLENE ENCASEMENT, THRUST BLOCKING, SETTING OF THE VALVE BOX WITH VALVE BOX ADAPTER, BACKFILL, AND COMPACTION. DMWW ENGINEERING TECHNICIAN WILL SCHEDULE TAP AND WILL REQUEST TAPPING FEE BE CHARGED TO DMWW ENGINEERING PROJECT NUMBER. TAPPING FEE WILL BE PAID BY DMWW. TAPPING SLEEVE AND VALVE WILL BE PROVIDED AND INSTALLED BY DMWW. CONTRACTOR WILL HAVE EXCAVATION PREPARED AND PROPERLY SHORED IN ADVANCE OF SCHEDULED TAP IN ACCORDANCE WITH DMWW RULES AND REGULATIONS LOCATED AT WWW.DMWW.COM AND OSHA REQUIREMENTS. THE ENGINEER WILL COUNT THE NUMBER OF EXCAVATIONS COMPLETED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR THE NUMBER OF EXCAVATIONS.
34	6010-A	<u>STORM MANHOLE, SW-401, 72 INCH</u> EXCAVATION, FURNISHING BEDDING MATERIAL, PLACING BEDDING AND BACKFILL MATERIAL, COMPACTION, BASE, STRUCTURAL CONCRETE, REINFORCING STEEL, PRECAST UNITS (IF USED), CASTINGS, AND ADJUSTMENT RINGS. ANY SHORING SHALL BE CONSIDERED INCIDENTAL. CASTING TO BE TYPE B THREE-PIECE FLOATING CASTINGS IN PAVEMENT AND TYPE A IN TURF AND SHALL BE STAMPED WITH "STORM". ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL.

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35	6010-B	<u>INTAKE, SW-501</u> INTAKES MAY BE CAST IN PLACE, PRECAST OR ADS NYLOPLAST EQUIVALENT STRUCTURE. ADJUSTING RINGS TO BE CRETEX PRO-RINGS OR APPROVED EQUAL. IF NYLOPLAST STURCTURES ARE TO BE USED, THE CONTRACTOR IS TO PROVIDE DOCUMENTATION OF PREVIOUS INSTALLATION OR COORDINATE TO HAVE SOMEONE FROM ADS PRESENT DURING THE FIRST 3 INSTALLATION OF STRUCTURES.
36	6010-B	<u>INTAKE, SW-503</u> INTAKES MAY BE CAST IN PLACE, PRECAST OR ADS NYLOPLAST EQUIVALENT STRUCTURE. ADJUSTING RINGS TO BE CRETEX PRO-RINGS OR APPROVED EQUAL. IF NYLOPLAST STURCTURES ARE TO BE USED, THE CONTRACTOR IS TO PROVIDE DOCUMENTATION OF PREVIOUS INSTALLATION OR COORDINATE TO HAVE SOMEONE FROM ADS PRESENT DURING THE FIRST 3 INSTALLATION OF STRUCTURES. CASTING SHALL BE STAMPED WITH "STORM". ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL.
37	6010-B	<u>INTAKE, SW-505</u> SEE BID ITEM #36
38	6010-B	<u>INTAKE, SW-506</u>
39	6010-B	<u>INTAKE, SW-507</u>
40	6010-B	<u>CATCH BASIN, 18 INCH</u> INSTALLATION PER MANUFACTURERS REQUIREMENTS. FLAT GRATED CASTING TO BE USED.
41	6010-B	<u>INTAKE, SW-516</u>
42	6010-E	<u>SANITARY MANHOLE ADJUSTMENT, MINOR</u> SEE M SHEETS FOR LOCATION, ADJUSTMENT NEEDS, AND MODIFICATION NEEDS. CASTING TO BE TYPE B THREE-PIECE FLOATING CASTINGS WITH "SANITARY SEWER" STAMPED ON LID. MANUFACTURE TO BE NEENAH, EAST JORDAN, DETER OR APPROVED EQUAL. ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL. NEW INTERNAL CHIMNEY SEALS TO BE INCLUDED.
43	6010-E	<u>STORM MANHOLE ADJUSTMENT, MINOR</u> SEE M SHEETS FOR LOCATION, ADJUSTMENT NEEDS, AND MODIFICATION NEEDS. CASTING TO BE TYPE B THREE-PIECE FLOATING CASTINGS WITH "SANITARY SEWER" STAMPED ON LID. MANUFACTURE TO BE NEENAH, EAST JORDAN, DETER OR APPROVED EQUAL. ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL. NEW INTERNAL CHIMNEY SEALS TO BE INCLUDED.
44	6010-F	<u>SANITARY MANHOLE ADJUSTMENT, MAJOR</u> SEE BID ITEM #42
45	6010-G	<u>CONNECTION TO EXISTING MANHOLE</u>
46	6010-H	<u>REMOVE INTAKE</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF CASTING, CONCRETE, AND REINFORCEMENT; PLUGGING PIPES; FILLING REMAINING STRUCTURE WITH FLOWABLE MORTAR; AND PLACING COMPACTED FILL OVER STRUCTURE TO FINISHED GRADE.
47	7010-A	<u>PAVEMENT, PCC, 7 INCH</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FINAL TRIMMING OF SUBGRADE OR SUBBASE, INTEGRAL CURB, BARS AND REINFORCEMENT, JOINTS AND SEALING, SURFACE CURING AND PAVEMENT PROTECTION, SAFETY FENCING, CONCRETE FOR RIGID HEADERS, BOXOUTS FOR FIXTURES, PAVEMENT SMOOTHNESS TESTING, AND QUALITY CONTROL FOR STRINGLESS PAVING. NO EXTRA PAYMENT FOR COLD WEATHER PAVING. CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED.
48	7010-999-A	<u>JOINT PREVENTATIVE SEALANT</u> IF BID ITEM FALLS WITHIN SUDAS SPECIFICATION SECTION, BUT NOT IDENTIFIED IN SUDAS
49	7010-N	<u>COLD WEATHER PROTECTION</u> 1. WHEN COLD WEATHER PROTECTION IS REQUIRED AND AUTHORIZED BY THE ENGINEER, MEASUREMENT WILL BE IN SQUARE YARDS OF THE AREA OF PCC PAVEMENT TO BE PROTECTED. THE AREA OF MANHOLES, INTAKES, OR OTHER FIXTURES IN THE PAVEMENT WILL NOT BE DEDUCTED FROM THE MEASURED PAVEMENT AREA. 2. PAYMENT WILL BE AT THE UNIT PRICE OF \$2.50 PER SQUARE YARD. PAYMENT WILL BE LIMITED TO PROTECTION NECESSARY ONLY WITHIN THE CONTRACT PERIOD AND WITH PRIOR AUTHORIZATION OF THE WORK BY THE ENGINEER. NO PRICE MODIFICATIONS WILL BE MADE FOR QUANTITY UNDERRUNS OR OVERRUNS FOR THIS ITEM. COLD WEATHER PROTECTION NECESSARY AFTER THE COMPLETION DATE, AFTER ALL CALENDAR DAYS HAVE PASSED, OR AFTER ALL WORKING DAYS HAVE BEEN USED IS INCIDENTAL TO THE WORK REGARDLESS IF A QUANTITY WAS INCLUDED IN THE CONTRACT. 3. INCLUDES: UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, ALL LABOR, MATERIALS, AND EQUIPMENT TO INSTALL AND REMOVE ALL REQUIRED PROTECTION.
50	7030-A-1	<u>REMOVAL OF SIDEWALK</u>

		ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. FULL DEPTH SAW CUTS ALONG THE REMOVAL LIMITS ARE INCIDENTAL TO THIS ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REMOVAL, EARTHWORK, SUBGRADE PREPARATION, MODIFIED SUBBASE AND PAVING EXPENSES DUE TO DAMAGED EDGES. ADDITIONAL REMOVAL TO BE DETERMINED BY ENGINEER. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED REGARDLESS OF THICKNESS.
51	7030-A-3	<u>REMOVAL OF DRIVEWAY</u> SEE BID ITEM #50
52	7030-E	<u>SIDEWALK, PCC, 4 INCH</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, MINOR GRADE ADJUSTMENTS AT DRIVEWAYS AND OTHER INTERSECTIONS, SUBGRADE PREPARATION, FORMWORK, ADDITIONAL THICKNESS AT THICKENED EDGES, JOINTING, SAMPLING, SLOPE AND SMOOTHNESS TESTING AND CORRECTION, AND TESTING. CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED. COMPACTION OF SUBGRADE IS INCIDENTAL TO THIS ITEM. CONCRETE TESTING WILL BE PROVIDED BY THE OWNER.
53	7030-E	<u>SIDEWALK, PCC, 4 INCH, REINFORCED</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, MINOR GRADE ADJUSTMENTS AT DRIVEWAYS AND OTHER INTERSECTIONS, SUBGRADE PREPARATION, FORMWORK, ADDITIONAL THICKNESS AT THICKENED EDGES, JOINTING, SAMPLING, SLOPE AND SMOOTHNESS TESTING AND CORRECTION, AND TESTING. CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED. COMPACTION OF SUBGRADE IS INCIDENTAL TO THIS ITEM. CONCRETE TESTING WILL BE PROVIDED BY THE OWNER.
54	7030-E	<u>SIDEWALK, PCC, 6 INCH</u> SEE BID ITEM #52
55	7030-G	<u>DETECTABLE WARNING</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, STEEL BAR SUPPORTS AND MANUFACTURED DETECTABLE WARNING PANELS. DETECTABLE WARNINGS SHALL MEET CURRENT PROWAG STANDARDS. TO BE RED CAST IRON MATERIAL.
56	7030-H-1	<u>DRIVEWAY, PAVED, PCC, 6 INCH</u> CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED. COMPACTION OF SUBGRADE IS INCIDENTAL TO THIS ITEM. CONCRETE TESTING WILL BE PROVIDED BY THE OWNER. NO EXTRA PAYMENT FOR COLD WEATHER PAVING.
57	7040-H	<u>PAVEMENT REMOVAL</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, SAWING, BREAKING, REMOVING, AND DISPOSING OF EXISTING PAVEMENT AND REINFORCING STEEL REGARDLESS OF PAVEMENT THICKNESS AND TYPE. ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. SEE B SHEETS FOR EXISTING PAVEMENT TYPICAL SECTIONS. EXISTING PAVEMENT DEPTHS AND TYPES MAY VARY.
58	8020-B	<u>PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE</u>
59	8030-A	<u>TEMPORARY TRAFFIC CONTROL</u> LUMP SUM PRICE INCLUDES, BUT IS NOT LIMITED TO, INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY TRAFFIC CONTROL; TOTAL ROADWAY CLOSURES WITH INSTALLATION AND REMOVAL OF DETOUR SIGNING AS SHOWN IN THE CONTRACT DOCUMENTS; REMOVAL AND REINSTALLATION OR COVERING OF PERMANENT TRAFFIC CONTROL DEVICES THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL PLAN; MONITORING AND DOCUMENTING TRAFFIC CONTROL CONDITIONS; AND FLAGGERS. WHEN REQUIRED IN THE CONTRACT DOCUMENTS, THE FOLLOWING ARE ALSO INCLUDED IN TRAFFIC CONTROL UNLESS A SEPARATE BID ITEM IS PROVIDED: PORTABLE DYNAMIC MESSAGE SIGNS, TEMPORARY BARRIER RAIL, TEMPORARY FLOOD LIGHTING, AND PILOT CARS.
60	8040-A	<u>TRAFFIC SIGNS, TYPE A</u> THE SIGN BLANK, APPLICATION OF REFLECTIVE SHEETING, APPLICATION OF SCREENED MESSAGE, ALL MOUNTING HARDWARE, AND ERECTING THE SIGN. NEW STREET NAME SIGNS SHALL MATCH EXISTING.
61	8040-D	<u>PERFORATED SQUARE STEEL TUBE POSTS</u>

		UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FABRICATING, FURNISHING, AND ERECTING THE POST AND OTHER DETAILS REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
62	8040-J	<u>REMOVE AND SALVAGE TRAFFIC SIGN ASSEMBLY</u>
63	9010-D	<u>WATERING</u> THIS ITEM IS ADDITIONAL WATERING OF SOD ABOVE AND BEYOND THE WATERING SPECIFIED AND INCLUDED IN THE SOD BID ITEM PER SUDAS. ONLY TO BE USED AFTER THE MAINTENANCE PERIOD (30 DAYS). APPLY WATER UNIFORMLY AND CONSISTENTLY ON ALL SODDED AREAS. ACTUAL WATERING QUANTITIES DEPEND UPON WEATHER CONDITIONS DURING THIS PERIOD, AN ADDITIONAL 30 DAYS OR AS REQUESTED BY ENGINEER. CONTRACTOR TO PROVIDE QUANTITY AFTER EACH WATERING.
64	9020-A	<u>SOD</u> THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, THE PREPARATION OF SOD AND SOD BED, STAKES, FERTILIZING, WATERING, MAINTENANCE, AND CLEAN-UP. MAINTENANCE PERIOD WILL BEGIN FOLLOWING THE INSTALLATION OF SOD FOR AN ENTIRE STAGE AND CONTINUE FOR A PERIOD OF 30 DAYS. AERATING THE SOD BED SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM ALONG WITH ADJUSTMENT OF CURB STOPS TO FINISH GRADE. ALL DAMAGED CURB STOPS SHALL BE REPLACED AT THE COST OF THE CONTRACTOR.
65	9030-B	<u>PLANTS WITH WARRANTY, ORNAMENTAL TREE</u> BID ITEM IS TO ESTABLISH A UNIT PRICE. THE NUMBER AND LOCATION WITHIN THE PROJECT AREA (WILL BE LOCATED IN FRONT YARDS) OF TREE IS NOT KNOWN AT THIS TIME, BUT WILL BE KNOWN BY PROJECT START. TREES TO BE 1.5" CALIPER OR MINIMUM OF SIX FOOT TALL. SPECIES SHALL INCLUDE HORNBEAM, FLOWERING CRAB, REDBUD OR APPROVED EQUAL. THIS ITEM INCLUDES LABOR, MATERIAL, AND EQUIPMENT TO FURNISH AND INSTALL TREES. PLANTINGS SHALL HAVE ONE YEAR WARRANTY FROM DATE OF FINAL ACCEPTANCE OF PLANTING. ACCEPTANCE CONTRUES FULL PAYMENT (MINUS RETAINAGE). INCLUDES ALL, BUT NOT LIMITED TO, WATERING BAG, STAKING OR GUYING, WRAPPING, AMENDED SOIL, EXCAVATION, BACKFILLING, INSTALLATION, MULCHING, HERBICIDE, MAINTENANCE DURING ESTABLISHMENT PERIOD, AND WARRANTY AND REJECTION REPLACEMENTS.
66	9030-B	<u>PLANTS WITH WARRANTY, DECIDUOUS TREE</u> BID ITEM IS TO ESTABLISH A UNIT PRICE. THE NUMBER AND LOCATION WITHIN THE PROJECT AREA (WILL BE LOCATED IN FRONT YARDS) OF TREE IS NOT KNOWN AT THIS TIME, BUT WILL BE KNOWN BY PROJECT START. TREES TO BE 1.5" CALIPER OR MINIMUM OF SIX FOOT TALL. SPECIES SHALL INCLUDE TULIP TREE, GINKGO-MALE AND AMERICAN SYCAMORE OR APPROVED EQUAL. THIS ITEM INCLUDES LABOR, MATERIAL, AND EQUIPMENT TO FURNISH AND INSTALL TREES. PLANTINGS SHALL HAVE ONE YEAR WARRANTY FROM DATE OF FINAL ACCEPTANCE OF PLANTING. ACCEPTANCE CONTRUES FULL PAYMENT (MINUS RETAINAGE). INCLUDES ALL, BUT NOT LIMITED TO, WATERING BAG, STAKING OR GUYING, WRAPPING, AMENDED SOIL, EXCAVATION, BACKFILLING, INSTALLATION, MULCHING, HERBICIDE, MAINTENANCE DURING ESTABLISHMENT PERIOD, AND WARRANTY AND REJECTION REPLACEMENTS.
67	9040-A-1	<u>SWPPP PREPARATION</u> DEVELOPMENT OF A SWPPP BY THE CONTRACTOR MEETING LOCAL AND STATE AGENCY REQUIREMENTS, FILING THE REQUIRED PUBLIC NOTICES, FILING A NOTICE OF INTENT FOR COVERAGE OF THE PROJECT UNDER THE IOWA DNR NPDES GENERAL PERMIT NO. 2, AND PAYMENT OF ASSOCIATED NPDES PERMIT FEES.
68	9040-A-2	<u>SWPPP MANAGEMENT</u> THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, ALL WORK REQUIRED TO COMPLY WITH THE ADMINISTRATIVE PROVISIONS OF THE IOWA DNR NPDES GENERAL PERMIT NO.2; INCLUDING RECORD KEEPING, DOCUMENTATION, UPDATING THE SWPPP, FILING THE NOTICE OF DISCONTINUATION, ETC. ITEM ALSO INCLUDES WEEKLY INSPECTION REQUIRED TO SATISFY THE PROVISIONS OF GENERAL PERMIT NO. 2.
69	9040-D-1	<u>FILTER SOCK, 9 INCH</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, ANCHORING STAKES, RESTORATION OF THE AREA TO FINISHED GRADE AND OFF-SITE DISPOSAL OF FILTER SOCKS AND ACCUMULATED SEDIMENT.
70	9040-O-1	<u>STABILIZED CONSTRUCTION ENTRANCE</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, SUBGRADE STABILIZATION FABRIC, MAINTAINCE, AND REMOVAL.
71	9040-Q-2	<u>EROSION CONTROL MULCHING, HYDRO MULCHING</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FURNISHING MULCH AND TACKIFIER (IF APPLICABLE), PROVIDING EQUIPMENT SPECIFIC TO HYDROMULCHING, AND APPLYING THE MULCH TO THE SPECIFIED AREA. THIS ITEM SHALL ONLY BE USED FOR TEMPORARY EROSION CONTROL OR AS DIRECTED BY ENGINEER.
72	9040-T-1	<u>INLET PROTECTION DEVICE, MAINTENCE, AND REMOVAL</u>



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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

ESTIMATE REFERENCE NOTES - BASE BID

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		UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF THE DEVICE UPON COMPLETION OF THE PROJECT. THIS ITEM SHALL BE USED ON STORM SEWER CURB INLET STRUCTURES. INSPECTION SHALL MEET THE REQUIREMENTS AS SET FORTH IN THE NPDES GENERAL PERMIT NO. 2 AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR ALONG WITH INSTALLATION, MAINTENANCE, AND REMOVAL OF DEVICE.
73	9070-A	<u>MODULAR BLOCK RETAINING WALL</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, EXCAVATION, FOUNDATION PREPARATION, FURNISHING AND PLACING WALL UNITS, GEOGRID (IF NECESSARY), LEVELING PAD, SUBDRAIN, POROUS BACKFILL MATERIAL FOR SUBDRAIN, ENGINEERING FABRIC FOR SUBDRAIN, GRANULAR BACKFILL MATERIAL, SUITABLE BACKFILL MATERIAL, AND SHORING AS NECESSARY. CONTRACTOR TO PROVIDE COLOR OPTIONS PRIOR TO ORDERING MATERIAL FOR ENGINEERS APPROVAL
74	11020-A	<u>MOBILIZATION</u>
75	11030-A	THIS ITEM IS FOR ALL PREPARATORY WORK AND COSTS INCURRED BEFORE BEGINNING THE WORK ON THE PROJECT AND DURING THE PROJECT. THIS ITEM SHALL ALSO INCLUDE THE COSTS FOR ANY STAGED CONSTRUCTION AND EQUIPMENT SET UP TO COMPLETE THE WORK. NO CHANGE IN THE CONTRACT PRICE WILL BE MADE FOR ANY CHANGE IN STAGING OR COMBINATION THEREOF. TO INCLUDE ANY MOBILICATION AFTER UTILITY POLE RELOCATION TO INSTALL SIDEWALK. <u>MAINTENANCE OF POSTAL SERVICE</u>
		COORDINATE WITH USPS AND PROPERTY OWNERS FOR TEMPORARY MAILBOX LOCATION WHEN NECESSARY. ENSURING MAIL SERVICE IS MAINTAINED THROUGHOUT THE PROJECT.
76	11030-B	<u>MAINTENANCE OF SOLID WASTE COLLECTION</u> CONTRACTOR SHALL COORDINATE WITH WASTE COLLECTION SERVICE TO ENSURE SERVICE IS MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT INCLUDING RECYCLE, YARD WASTE, CURB PICKUP ITEMS (WITH APPROPRIATE STICKERS), DUMPSTERS. LABEL ALL BINS WITH ADDRESS BY REMOVABLE MEANS. COORDINATE DUMPSTER PICKUP WITH OWNER AND HAULER AND MOVE DUMPSTER AS REQUIRED TO KEEP SCHEDULED PICK UP TIMES OR ARRANGE FOR OTHER PICK METHODS. AN ONSITE BUMPSTERS MAY BE UTILIZED FOR GARBAGE AND RECYLING.
77	11040-A	<u>TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS</u> RECLAIMED ASPHALT PAVEMENT MAY BE USED. INCLUDES THE INSTALLATION AND MAINTENANCE OF CITY SUPPLIED RUBBER MATTING AT THE LOCATION SHOWN. THE MATTING WILL BE PLACED OVER THE GRANULAR SURFACING. METHOD OF PAYMENT: STAGE 1 - 60% OF UNIT PRICE, STAGE 2 - 40% OR REMAINING UNIT PRICE.

78 11050-A CONCRETE WASHOUT
LUMP SUM PRICE INCLUDES, BUT IS NOT LIMITED TO, PROVIDING CONCRETE WASHWATER CONTAINMENT, COLLECTION, AND DISPOSAL.



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68TH STREET SOUTH RECONSTRUCTION	
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ESTIMATED PROJECT QUANTITIES (ALTERNATE A)									
ITEM NO.	ITEM CODE	ITEM	UNIT	CITY	AS-BUILT QTY.	DMWW	AS-BUILT QTY.	TOTAL EST. QUANTITY	AS-BUILT QTY.
A1	2010-C	CLEARING AND GRUBBING	LS	1		0		1	
A2	2010-D-1	TOPSOIL, ON-SITE	CY	620		0		620	
A3	2010-E	EXCAVATION, CLASS 10	CY	700		0		700	
A4	2010-F	BELOW GRADE EXCAVATION (CORE OUT)	CY	0		0		0	
A5	2010-G	SUBGRADE PREPARATION	SY	1070		0		1070	
A6	2010-I	SUBGRADE TREATMENT, POLYMER GRID	SY	0		0		0	
A7	2010-J	SUBBASE, MODIFIED, 8 INCHES	SY	1070		0		1070	
A8	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	0		0		0	
A9	4020-A-1	STORM SEWER, TRENCHED, 36 INCH	LF	145		0		145	
A10	4020-A-1	STORM SEWER, TRENCHED, RCP, 44" X 27" ARCH	LF	132		0		132	
A11	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36 INCH	LF	275		0		275	
A12	4040-A	SUBDRAIN, PERFORATED HDPE, 6 INCH	LF	524		0		524	
A13	4040-C-1	SUBDRAIN CLEANOUT, TYPE A-1, 6 INCH	EA	2		0		2	
A14	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6 INCH	EA	2		0		2	
A15	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE	LF	0		300		300	
A16	SPEC. PROV.	FITTING BY WEIGHT, DUCTILE IRON	LB	0		230		230	
A17	SPEC. PROV.	WATER MAIN REMOVAL	LF	0		40		40	
A18	6010-A	STORM MANHOLE, SW-401, 72 INCH	EA	1		0		1	
A19	6010-B	INTAKE, SW-516	EA	1		0		1	
A20	6010-E	INTAKE ADJUSTMENT, MINOR	EA	2		0		2	
A21	6010-H	REMOVE INTAKE	EA	1		0		1	
A22	7010-A	PAVEMENT, PCC, 7 INCH	SY	900		0		900	
A23	7010-999-A	JOINT PREVENTATIVE SEALANT	LF	0		0		0	
A24	7030-A-1	REMOVAL OF SIDEWALK	SY	10		0		10	
A25	7030-A-3	REMOVAL OF DRIVEWAY	SY	110		0		110	
A26	7030-E	SIDEWALK, PCC, 4 INCH	SY	150		0		150	
A27	7030-E	SIDEWALK, PCC, 6 INCH	SY	10		0		10	
A28	7030-G	DETECTABLE WARNING	SF	20		0		20	
A29	7030-H-1	DRIVEWAY, PAVED, PCC, 6 INCH	SY	110		0		110	
A30	7040-H	PAVEMENT REMOVAL	SY	770		0		770	
A31	8040-A	TRAFFIC SIGNS, TYPE A	EA	3		0		3	
A32	8040-D	PERFORATED SQUARE STEEL TUBE POSTS	EA	2		0		2	
A33	9010-D	WATERING	MGAL	13		0		13	
A34	9020-A	SOD	SQ	49		0		49	
A35	9040-D-1	FILTER SOCK, 9 INCH	LF	840		0		840	
A36	9040-T-1	INLET PROTECTION DEVICE, MAINTENCE, AND REMOVAL	EA	4		0		4	
A37	9060-D	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK FENCE, RESIDENTIAL	LF	80		0		80	
A38	11040-A	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS	LS	1		0		1	



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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
QUANTITIES - ALTERNATE A

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ESTIMATE REFERENCE INFORMATION (ALTERNATE A)		
ITEM NO.	ITEM CODE	DESCRIPTION
A1	2010-C	CLEARING AND GRUBBING THIS ITEM SHALL INCLUDE ALL NECESSARY TRIMMING AND CLEARING AND GRUBBING TO COMPLETE CONSTRUCTION. PROTECT ALL TREES NOT MARKED FOR REMOVAL. CONTRACTOR TO DETERMINE ANY AND ALL TRIMMING NEEDS REQUIRED FOR CONSTRUCTION OPERATIONS, INCLUDING ANY ROOTS ENCOUNTERED.
A2	2010-D-1	TOPSOIL, ON-SITE TOPSOIL WITHIN THE GRADING LIMITS OF THE PROJECT SHALL BE STRIPPED, SALVAGED, AND RESPREAD AT A MINIMUM DEPTH OF 6". ITEM INCLUDES HAULING OFF-SITE TO STORE AND HAULING BACK IN IF NEEDED. SALVAGED TOPSOIL SHALL REMAIN WITHIN THE RIGHT-OF-WAY UNLESS AGREEMENTS MADE WITH THE PROPERTY OWNER. CONTRACTOR TO PAY FOR RESTORATION COST IF LOCATED OUTSIDE OF THE RIGHT OF WAY. MEASUREMENT WILL NOT BE MADE AND QUANTITY PAID WILL BE ON A PERCENT OF ITEM COMPLETE.
A3	2010-E	EXCAVATION, CLASS 10 THIS ITEM SHALL INCLUDE THE REMOVAL OF EXISTING SOIL, HAULING, DISPOSAL/EXPORT AND RE-GRADING AS PER PLAN TO FACILITATE ALL PROPOSED SECTIONS. ALL BORROW SHALL BE PROVIDED BY THE CONTRACTOR. EXCESS OR UNSUITABLE EXCAVATED MATERIAL WILL BECOME PROPERTY OF THE CONTRACTOR AND WILL BE HAULED OFF-SITE INCIDENTAL TO THE ITEM. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR OVERHAUL OF WASTE. RAW CUT = X CY, RAW FILL = X CY, ADJUSTED FILL (1.30 FACTOR) = X CY RAW EARTHWORK QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY ARE A COMPARISON OF EXISTING CONDITIONS AND PROPOSED CONDITIONS AND MAY INCLUDE MATERIALS AND OPERATIONS PAID FOR UNDER OTHER BID ITEMS E.G. PAVEMENT REMOVAL, STORM SEWER TRENCHED, PCC PAVEMENT, SUBBASE, TOPSOIL, COMPOST AMENDMENT, ETC. MEASUREMENT WILL NOT BE MADE AND QUANTITY PAID WILL BE ON A PERCENT OF ITEM COMPLETE.
A4	2010-F	BELOW GRADE EXCAVATION (CORE OUT) BID ITEM IS TO ESTABLISH A UNIT PRICE IF UNSUITABLE OR UNSTABLE MATERIAL IS ENCOUNTERED. PAYMENT INCLUDES, BUT IS NOT LIMITED TO, EQUIPMENT, TOOLS, LABOR, DISPOSAL OF UNSUITABLE MATERIALS, DEWATERING, DRYING, FURNISHING, AND PLACEMENT OF RECYCLED CONCRETE OR MODIFIED OR APPROVED EQUAL AS REQUIRED BY THE ENGINEER, COMPACTION AND FINISHING OF THE EXCAVATED AREA, AND ALL INCIDENTAL WORK AS MAY BE REQUIRED. TO BE USED AS DETERMINED BY ENGINEER.
A5	2010-G	SUBGRADE PREPARATION TO BE USED AS APPROVED BY ENGINEER. CONTRACTOR SHALL COMPACT SUBGRADE AND PROOF ROLL. IF SUBGRADE PASSES PROOF ROLL, NO SUBGRADE PREPARATION WILL BE REQUIRED. IF REQUIRED, SUBGRADE PREPARATION MUST BE COMPLETED IN 2 - 6" LIFTS. UNDER PROPOSED PAVEMENT, PLUS 4 FEET ON EACH SIDE. MOISTURE AND DENSITY TESTING WILL BE PROVIDED BY THE OWNER. CHECKING OF SUBGRADE WILL BE PREFORMED WITH ROUGH GRADING STAKES SET 25' APART.
A6	2010-I	SUBGRADE TREATMENT, POLYMER GRID THIS ITEM WILL BE USED ONLY WHEN THE ENGINEER DETERMINES IT IS REQUIRED TO PROVIDE SUITABLE SUBGRADE. LOCATION(S) OF TREATMENT, IF ANY, WILL BE SPECIFIED BY THE ENGINEER. MATERIAL TO HAVE NO CHUNKS LARGER THAN 2 INCHES. HAULING OFF ANY EXCESS MATERIAL GENERATED DURING THE PROCESS SHALL BE CONSIDERED INCIDENTAL. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
A7	2010-J	SUBBASE, MODIFIED, 8 INCHES THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, COMPACTION OF SUBGRADE, FURNISHING, PLACING, COMPACTING, AND TRIMMING TO THE PROPER GRADE.
A8	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL UNSUITABLE BACKFILL MATERIAL SHALL BE REPLACED WITH GRANULAR BACKFILL OR OTHER APPROVED MATERIAL AS APPROVED BY THE ENGINEER. GRANULAR BACKFILL IS INCIDENTAL TO THIS ITEM. THIS ITEM WILL BE PAID BY THE CUBIC YARD - LOOSE VOLUME. NO RECYCLED CONCRETE OR RIP RAP ALLOWED. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
A9	4020-A-1	STORM SEWER, TRENCHED, 36 INCH SEE BID ITEM #11
A10	4020-A-1	STORM SEWER, TRENCHED, RCP, 44" X 27" ARCH
A11	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36 INCH UNIT PRICE INCLUDES, REMOVAL, DISPOSAL, AND FURNISHING, PLACING, AND COMPACTING BACKFILL MATERIAL.
A12	4040-A	SUBDRAIN, PERFORATED HDPE, 6 INCH THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, TRENCH EXCAVATION, FURNISHING AND PLACEMENT OF BEDDING AND BACKFILL MATERIAL, ENGINEERING FABRIC, CONNECTORS, AND ELBOWS AND TEES. THE LENGTH OF ELBOWS AND TEES OF THE PIPES INSTALLED WILL BE INCLUDED IN THE LENGTH OF PIPE MEASURED. POTHOLE FOR ALL EXISTING UTILITIES PRIOR TO SUBDRAIN INSTALLATION TO DETERMINE WHERE SUBDRAIN CAN BE PLACED. POTHOLING SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
A13	4040-C-1	SUBDRAIN CLEANOUT, TYPE A-1, 6 INCH UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, TRENCH EXCAVATION; FURNISHING CLEANOUT AND LID; AND FURNISHING, PLACING, AND COMPACTING BEDDING AND BACKFILL MATERIAL.

A14	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6 INCH UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, PIPE, NON-SHRINK GROUT, COUPLING BANDS, AND RODENT GUARDS FOR PIPES 6 INCHES OR SMALLER.
A15	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE
A16	SPEC. PROV.	FITTING BY WEIGHT, DUCTILE IRON PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL DI FITTINGS OF SPECIFIED SIZE AND TYPE INCLUDING EXCAVATION, PIPE BEDDING, POLYETHYLENE ENCASEMENT, THRUST RESTRAINT, TRACER WIRE SYSTEM, BACKFILL, COMPACTION, PRESSURE TESTING, AND DISINFECTION, ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER POUND FOR EACH FITTING INSTALLED. DETERMINATION OF THE TOTAL WEIGHT OF FITTINGS, IN POUNDS, SHALL BE BASED ON THE STANDARD FITTING WEIGHTS PUBLISHED IN AWWA C153 FOR DUCTILE IRON COMPACT FITTINGS.
A17	SPEC. PROV.	WATER MAIN REMOVAL EXISTING PIPE SHALL NOT BE REMOVED UNTIL NEW WATERMAIN INSTALLATION IS TO BE DETEREMINED TO BE COMPLETE BY DMWW.
A18	6010-A	STORM MANHOLE, SW-401, 72 INCH EXCAVATION, FURNISHING BEDDING MATERIAL, PLACING BEDDING AND BACKFILL MATERIAL, COMPACTION, BASE, STRUCTURAL CONCRETE, REINFORCING STEEL, PRECAST UNITS (IF USED), CASTINGS, AND ADJUSTMENT RINGS. ANY SHORING SHALL BE CONSIDERED INCIDENTAL. CASTING TO BE TYPE B THREE-PIECE FLOATING CASTINGS IN PAVEMENT AND TYPE A IN TURF AND SHALL BE STAMPED WITH "STORM". ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL.
A19	6010-B	INTAKE, SW-516
A20	6010-E	INTAKE ADJUSTMENT, MINOR
A21	6010-H	REMOVE INTAKE UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF CASTING, CONCRETE, AND REINFORCEMENT; PLUGGING PIPES; FILLING REMAINING STRUCTURE WITH FLOWABLE MORTAR; AND PLACING COMPACTED FILL OVER STRUCTURE TO FINISHED GRADE.
A22	7010-A	PAVEMENT, PCC, 7 INCH UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FINAL TRIMMING OF SUBGRADE OR SUBBASE, INTEGRAL CURB, BARS AND REINFORCEMENT, JOINTS AND SEALING, SURFACE CURING AND PAVEMENT PROTECTION, SAFETY FENCING, CONCRETE FOR RIGID HEADERS, BOXOUTS FOR FIXTURES, PAVEMENT SMOOTHNESS TESTING, AND QUALITY CONTROL FOR STRINGLESS PAVING. NO EXTRA PAYMENT FOR COLD WEATHER PAVING. CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED.
A23	7010-999-A	JOINT PREVENTATIVE SEALANT IF BID ITEM FALLS WITHIN SUDAS SPECIFICATION SECTION, BUT NOT IDENTIFIED IN SUDAS
A24	7030-A-1	REMOVAL OF SIDEWALK ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. FULL DEPTH SAW CUTS ALONG THE REMOVAL LIMITS ARE INCIDENTAL TO THIS ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REMOVAL, EARTHWORK, SUBGRADE PREPARATION, MODIFIED SUBBASE AND PAVING EXPENSES DUE TO DAMAGED EDGES. ADDITIONAL REMOVAL TO BE DETERMINED BY ENGINEER. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED REGARDLESS OF THICKNESS.
A25	7030-A-3	REMOVAL OF DRIVEWAY SEE BID ITEM #A24
A26	7030-E	SIDEWALK, PCC, 4 INCH UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, MINOR GRADE ADJUSTMENTS AT DRIVEWAYS AND OTHER INTERSECTIONS, SUBGRADE PREPARATION, FORMWORK, ADDITIONAL THICKNESS AT THICKENED EDGES, JOINTING, SAMPLING, SLOPE AND SMOOTHNESS TESTING AND CORRECTION, AND TESTING. CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED. COMPACTION OF SUBGRADE IS INCIDENTAL TO THIS ITEM. CONCRETE TESTING WILL BE PROVIDED BY THE OWNER.
A27	7030-E	SIDEWALK, PCC, 6 INCH SEE BID ITEM #A26
A28	7030-G	DETECTABLE WARNING UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, STEEL BAR SUPPORTS AND MANUFACTURED DETECTABLE WARNING PANELS. DETECTABLE WARNINGS SHALL MEET CURRENT PROWAG STANDARDS. TO BE RED CAST IRON MATERIAL.
A29	7030-H-1	DRIVEWAY, PAVED, PCC, 6 INCH CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED. COMPACTION OF SUBGRADE IS INCIDENTAL TO THIS ITEM. CONCRETE TESTING WILL BE PROVIDED BY THE OWNER. NO EXTRA PAYMENT FOR COLD WEATHER PAVING.
A30	7040-H	PAVEMENT REMOVAL UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, SAWING, BREAKING, REMOVING, AND DISPOSING OF EXISTING PAVEMENT AND REINFORCING STEEL REGARDLESS OF PAVEMENT THICKNESS AND TYPE. ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. SEE B SHEETS FOR EXISTING PAVEMENT TYPICAL SECTIONS. EXISTING PAVEMENT DEPTHS AND TYPES MAY VARY.

A31	8040-A	TRAFFIC SIGNS, TYPE A THE SIGN BLANK, APPLICATION OF REFLECTIVE SHEETING, APPLICATION OF SCREENED MESSAGE, ALL MOUNTING HARDWARE, AND ERECTING THE SIGN. NEW STREET NAME SIGNS SHALL MATCH EXISTING.
A32	8040-D	PERFORATED SQUARE STEEL TUBE POSTS UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FABRICATING, FURNISHING, AND ERECTING THE POST AND OTHER DETAILS REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
A33	9010-D	WATERING THIS ITEM IS ADDITIONAL WATERING OF SOD ABOVE AND BEYOND THE WATERING SPECIFIED AND INCLUDED IN THE SOD BID ITEM PER SUDAS. ONLY TO BE USED AFTER THE MAINTENANCE PERIOD (30 DAYS). APPLY WATER UNIFORMLY AND CONSISTENTLY ON ALL SODDED AREAS. ACTUAL WATERING QUANTITIES DEPEND UPON WEATHER CONDITIONS DURING THIS PERIOD, AN ADDITIONAL 30 DAYS OR AS REQUESTED BY ENGINEER. CONTRACTOR TO PROVIDE QUANTITY AFTER EACH WATERING.
A34	9020-A	SOD THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, THE PREPARATION OF SOD AND SOD BED, STAKES, FERTILIZING, WATERING, MAINTENANCE, AND CLEAN-UP. MAINTENANCE PERIOD WILL BEGIN FOLLOWING THE INSTALLATION OF SOD FOR AN ENTIRE STAGE AND CONTINUE FOR A PERIOD OF 30 DAYS. AERATING THE SOD BED SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM ALONG WITH ADJUSTMENT OF CURB STOPS TO FINISH GRADE. ALL DAMAGED CURB STOPS SHALL BE REPLACED AT THE COST OF THE CONTRACTOR.
A35	9040-D-1	FILTER SOCK, 9 INCH UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, ANCHORING STAKES, RESTORATION OF THE AREA TO FINISHED GRADE AND OFF-SITE DISPOSAL OF FILTER SOCKS AND ACCUMULATED SEDIMENT.
A36	9040-T-1	INLET PROTECTION DEVICE, MAINTENCE, AND REMOVAL UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF THE DEVICE UPON COMPLETION OF THE PROJECT. THIS ITEM SHALL BE USED ON STORM SEWER CURB INLET STRUCTURES. INSPECTION SHALL MEET THE REQUIREMENTS AS SET FORTH IN THE NPDES GENERAL PERMIT NO. 2 AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR ALONG WITH INSTALLATION, MAINTENANCE, AND REMOVAL OF DEVICE.
A37	9060-D	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK FENCE, RESIDENTIAL
A38	11040-A	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS RECLAIMED ASPHALT PAVEMENT MAY BE USED. INCLUDES THE INSTALLATION AND MAINTENANCE OF CITY SUPPLIED RUBBER MATTING AT THE LOCATION SHOWN. THE MATTING WILL BE PLACED OVER THE GRANULAR SURFACING. METHOD OF PAYMENT: STAGE 1 - 60% OF UNIT PRICE, STAGE 2 - 40% OR REMAINING UNIT PRICE.

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CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET SOUTH RECONSTRUCTION

C - QUANTITIES NOTES SWPPP

SHEET

C.08

EXCAVATION QUANTITY	DEPTH, FT	QUANTITY, SY	QUANTITY, SF	VOLUME, CF	VOLUME, CY	CUT, CY	FILL, CY	FILL FACTOR	ADJ, FILL	NET FILL, CY
EXCAVATION RAW DATA (EG-FG)						466.81	532.03	1.3	691.639	65.22
EXISTING PAVEMENT REMOVAL	0.5	5302.55	47722.96	23861.48	883.76					
EXISTING DRIVEWAY REMOVAL	0.5	1055.88	9502.93	4751.47	175.98					
EXISTING ASPHALT DRIVEWAY REMOVAL										
PROPOSED 7" PAVING	0.58	5705.58	51350.26	29783.15	1103.08					
MODIFIED SUBBASE 6"		6561.42	59052.80	29526.40	1093.57					
PROPOSED SIDEWALK 4"	0.33	787.74	7089.63	2339.58	86.65					
PROPOSED SIDEWALK 6"	0.5	242.11	2178.99	1089.50	40.35					
MODIFIED SUBBASE 4"	-	-	-	-	-					
PROPOSED DRIVEWAY	0.5	793.22	7139	3569.5	132.20					
PROPOSED TOPSOIL	0.5	2857.42	25716.8	12858.4	476.24					
PAVING DIFFERENCE						1312.89				
SIDEWALK DIFFERENCE						127.00				
DRIVEWAY DIFFERENCE						-43.78				
TOPSOIL						-476.24				
						1386.69	532.03	1.3	691.639	695.05

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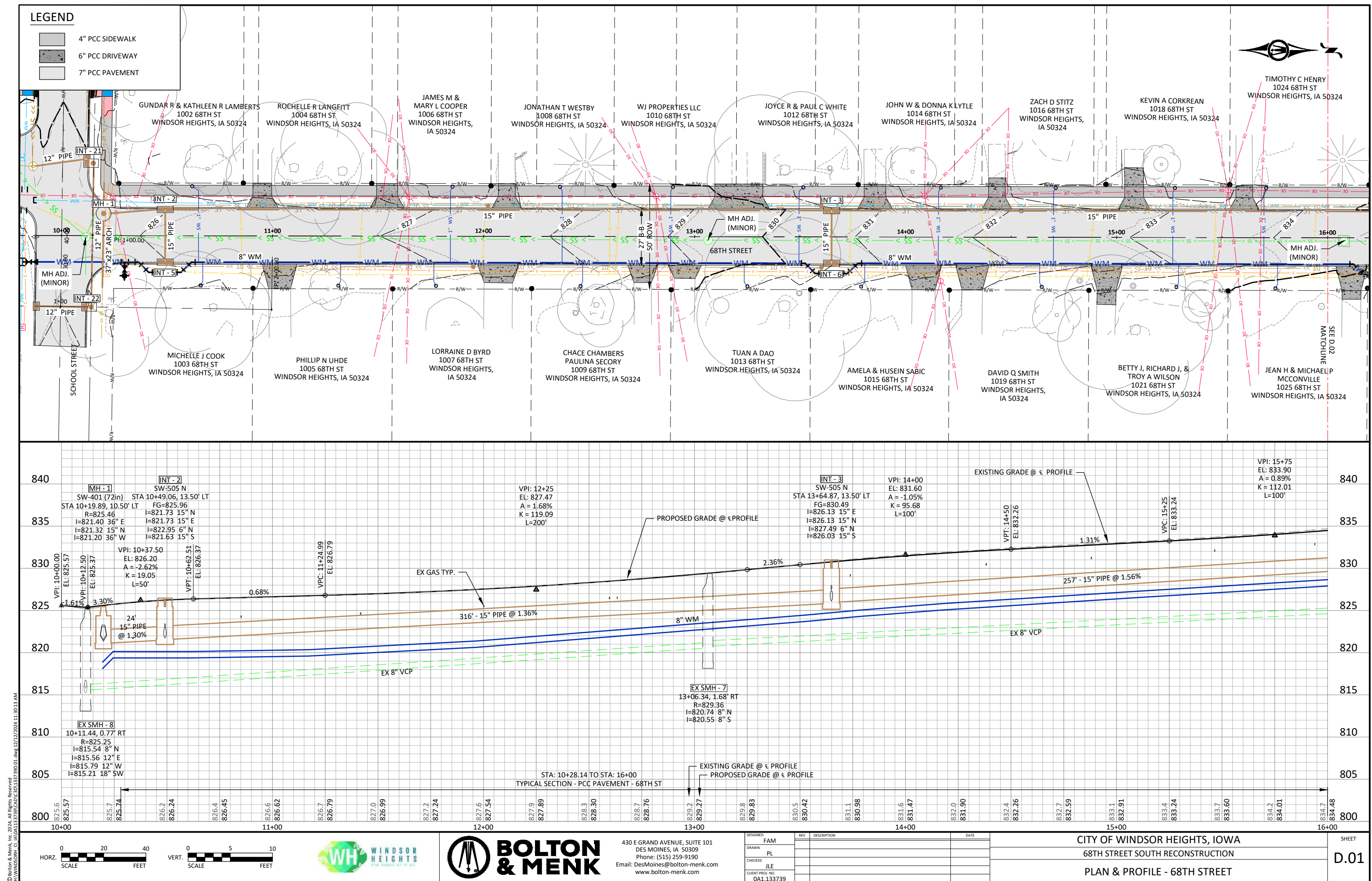
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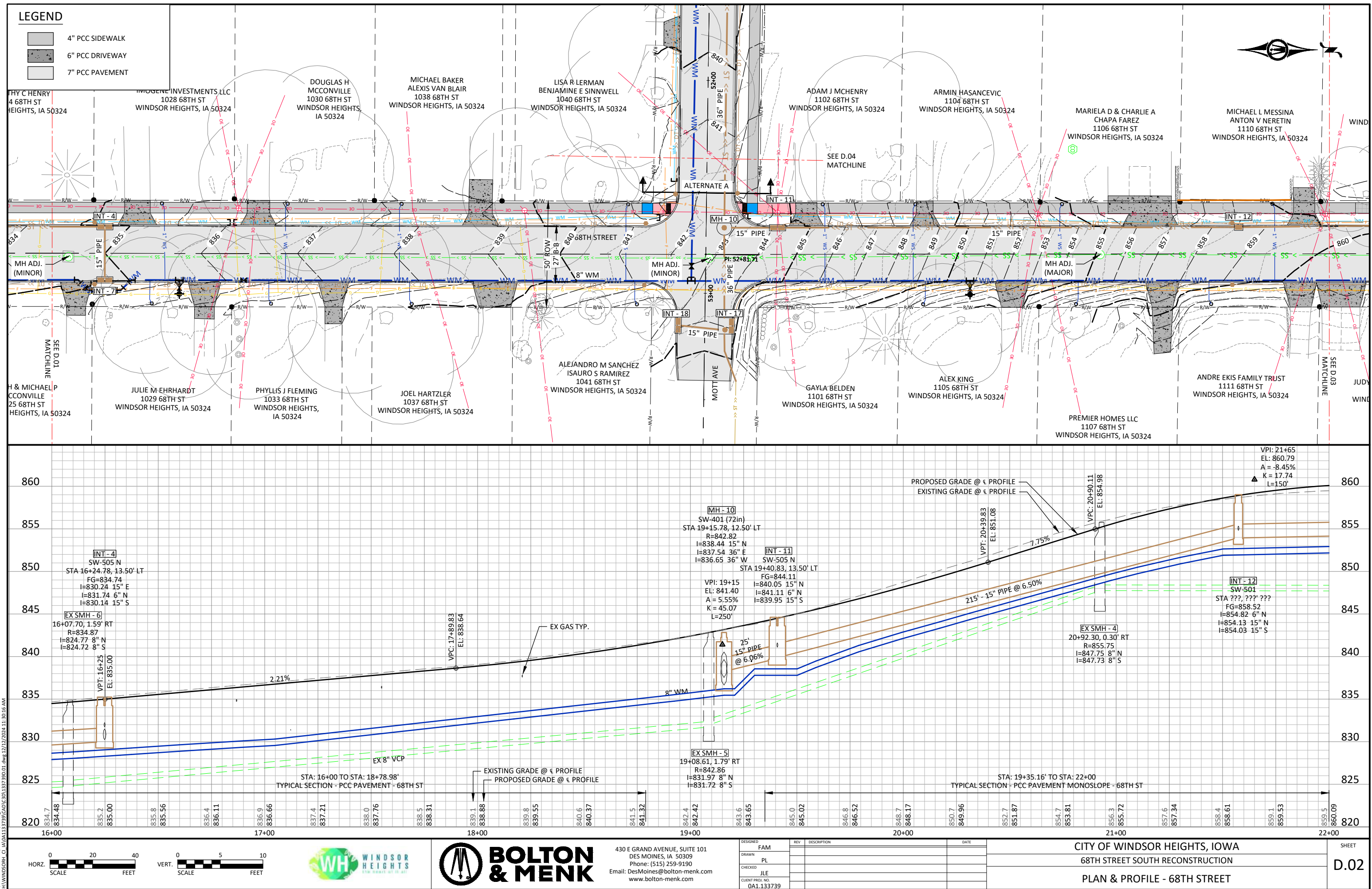
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68TH STREET SOUTH RECONSTRUCTION

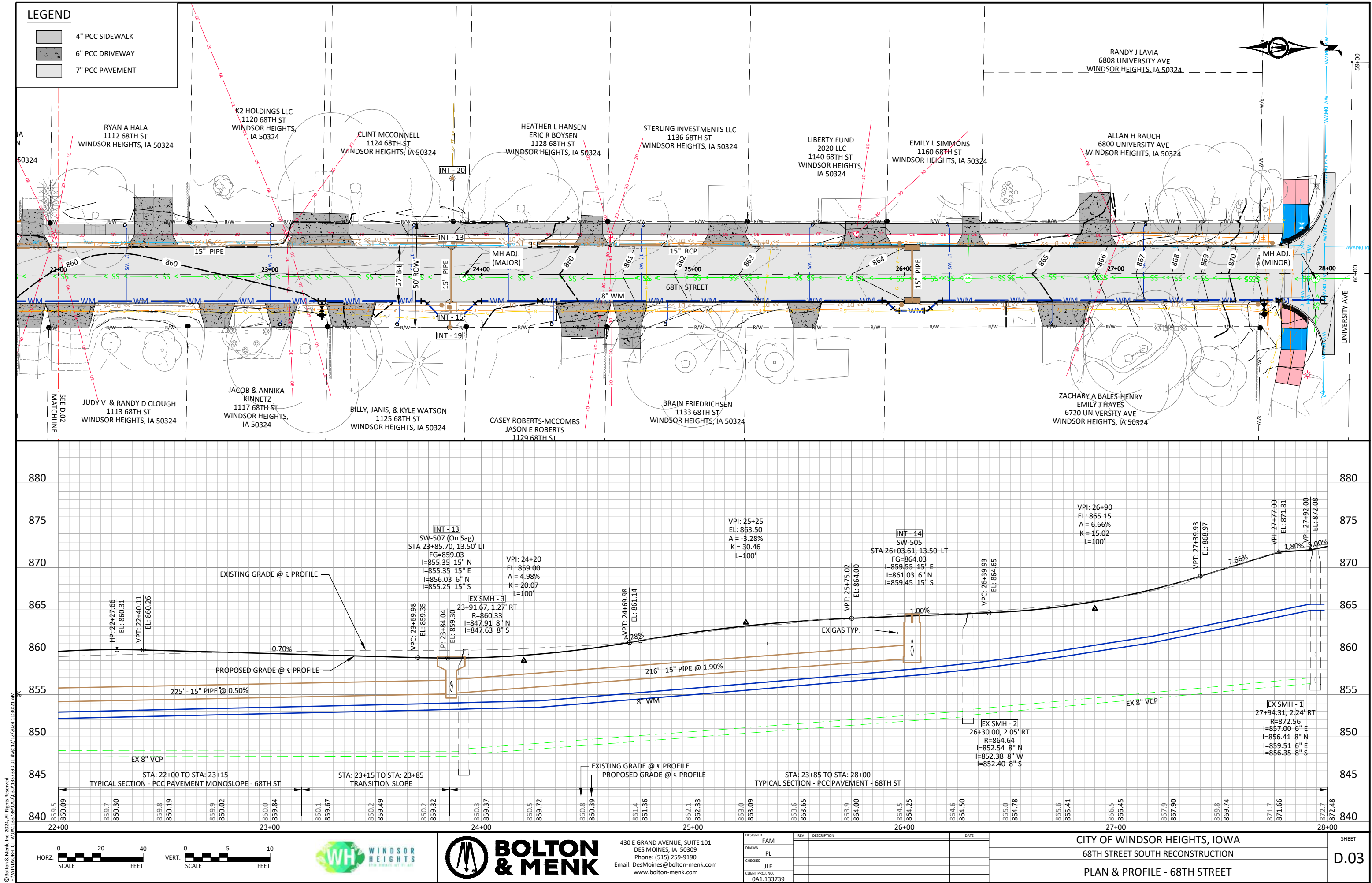
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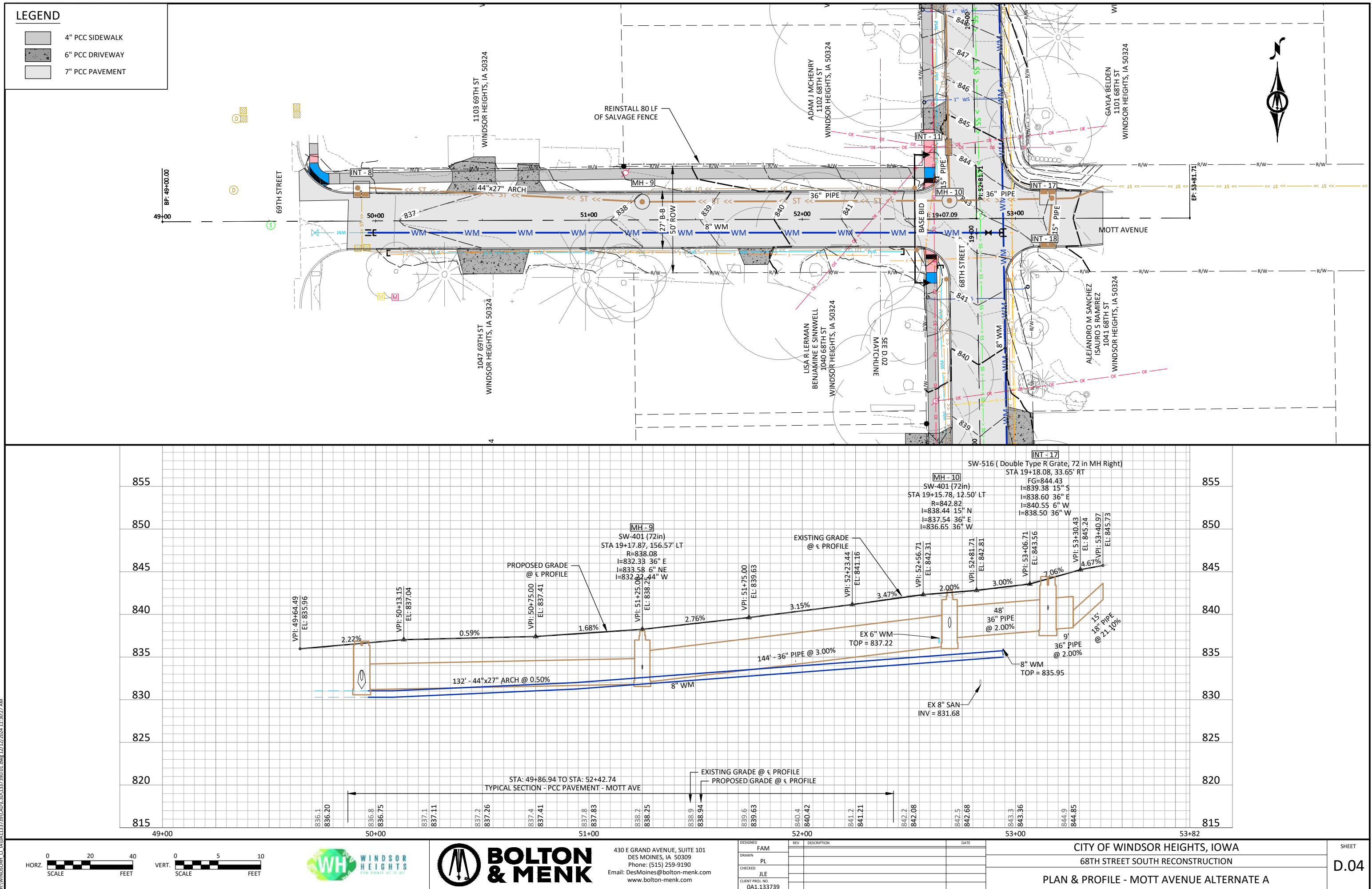
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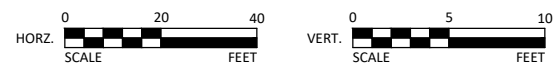
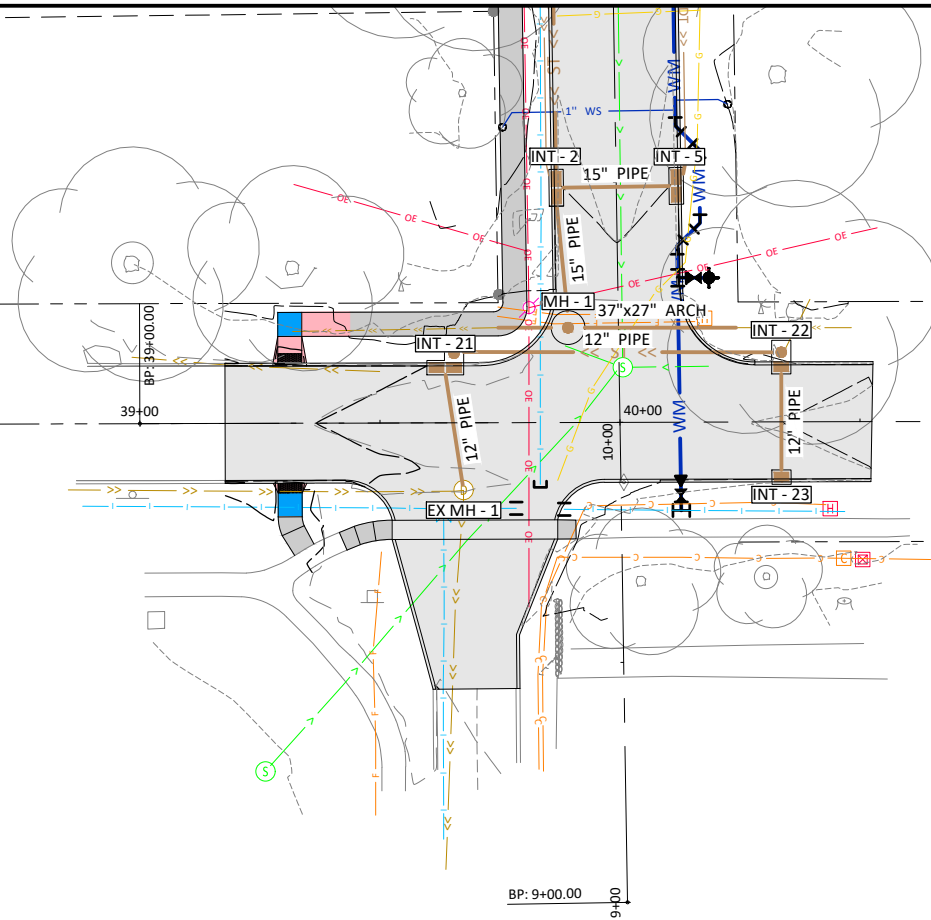
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
PLAN & PROFILE - SCHOOL STREET

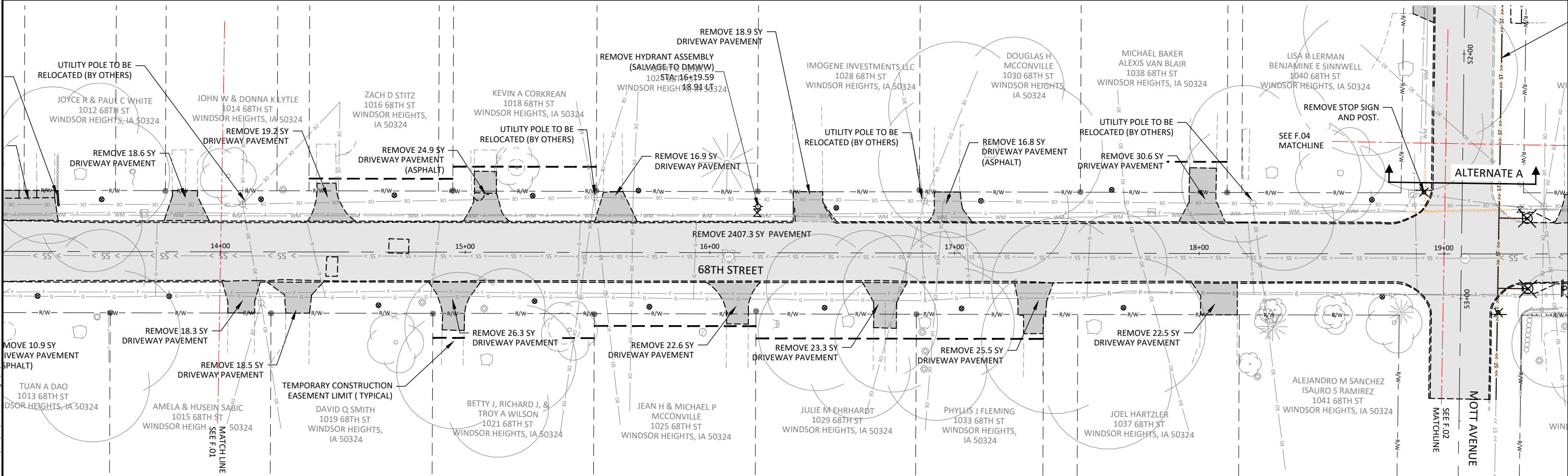
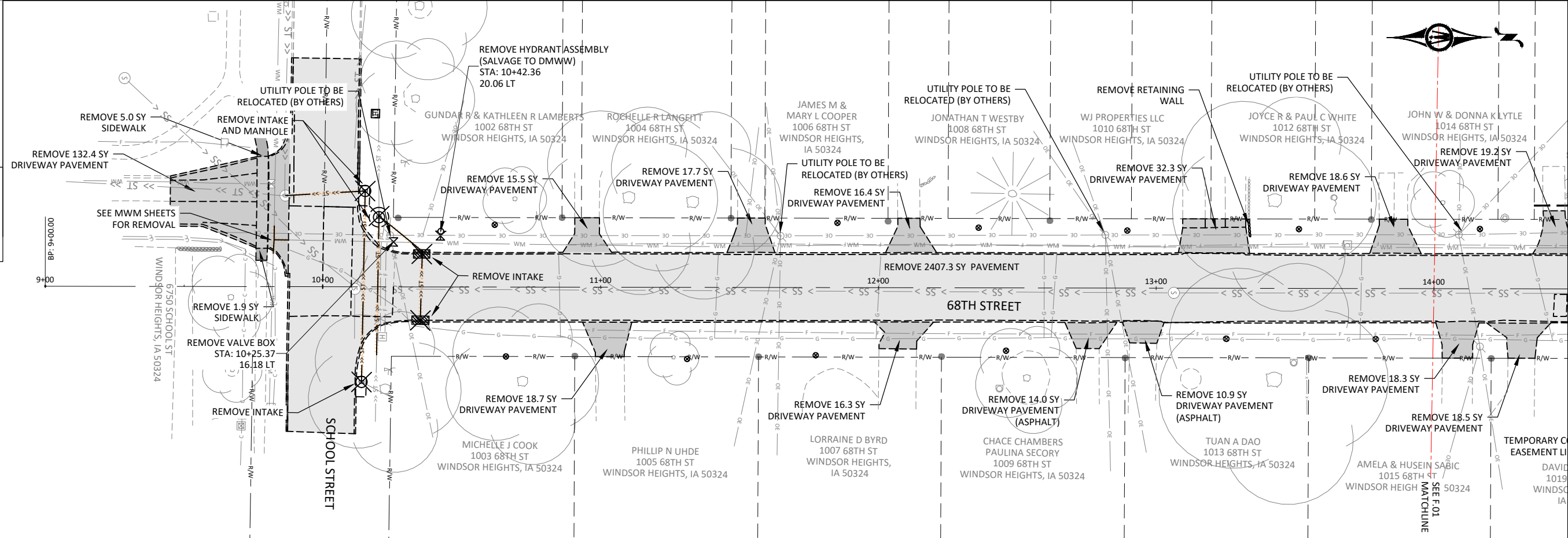
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D.05

REMOVAL LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY REMOVAL
- SIDEWALK REMOVAL
- PIPE REMOVAL
- ITEM REMOVAL

NOTE:
1. EXISTING WATER MAIN TO BE CAPPED AND ABANDONED IN PLACE. SPOT REMOVALS MAY BE NECESSARY TO INSTALL NEW WATER MAIN OR OTHER UNDERGROUND UTILITIES.
2. EXISTING SIGNS ON UTILITIES POLE TO BE REMOVE AND SALVAGE.

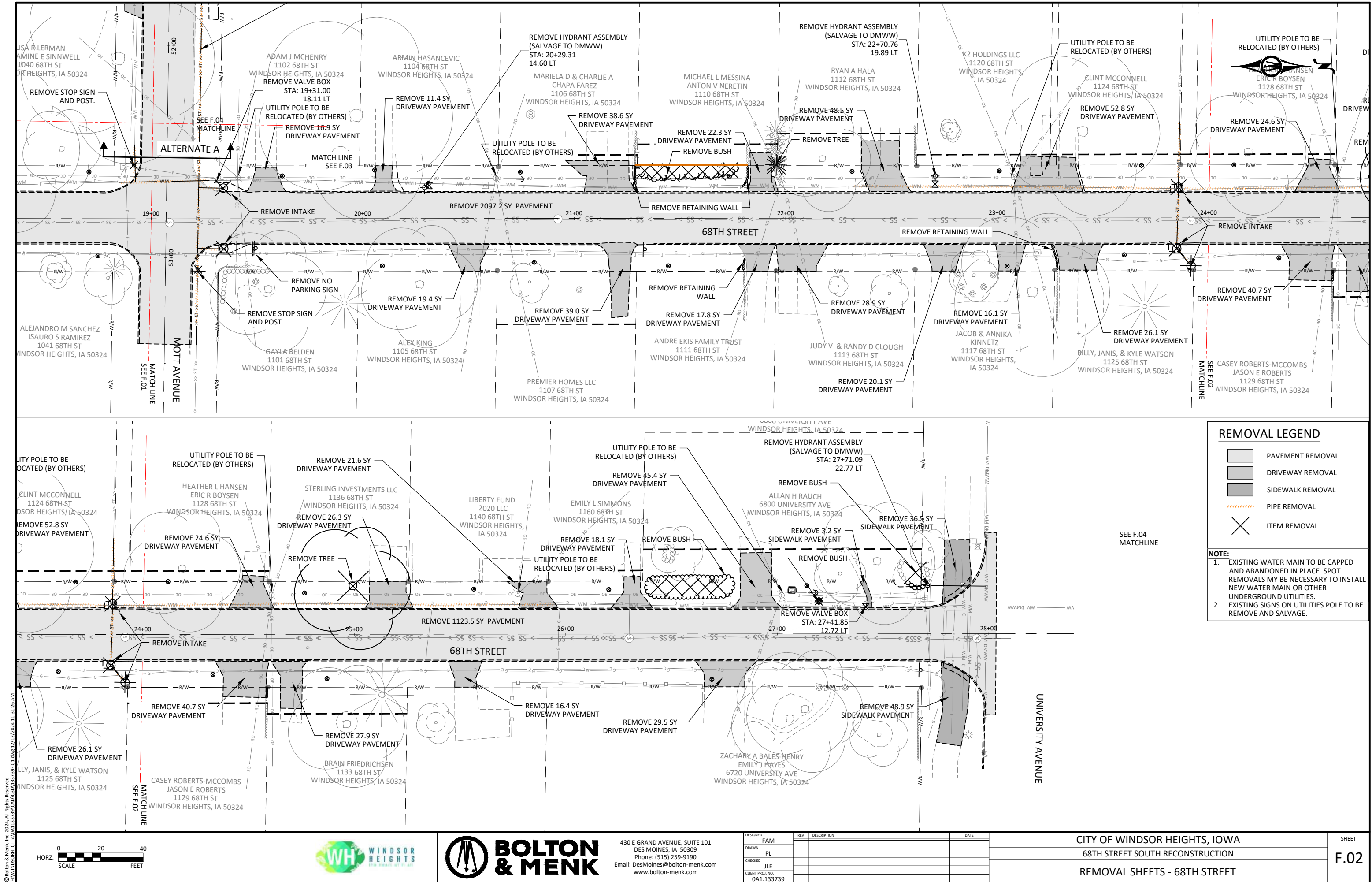


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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
REMOVAL SHEETS - 68TH STREET

SHEET
F.01



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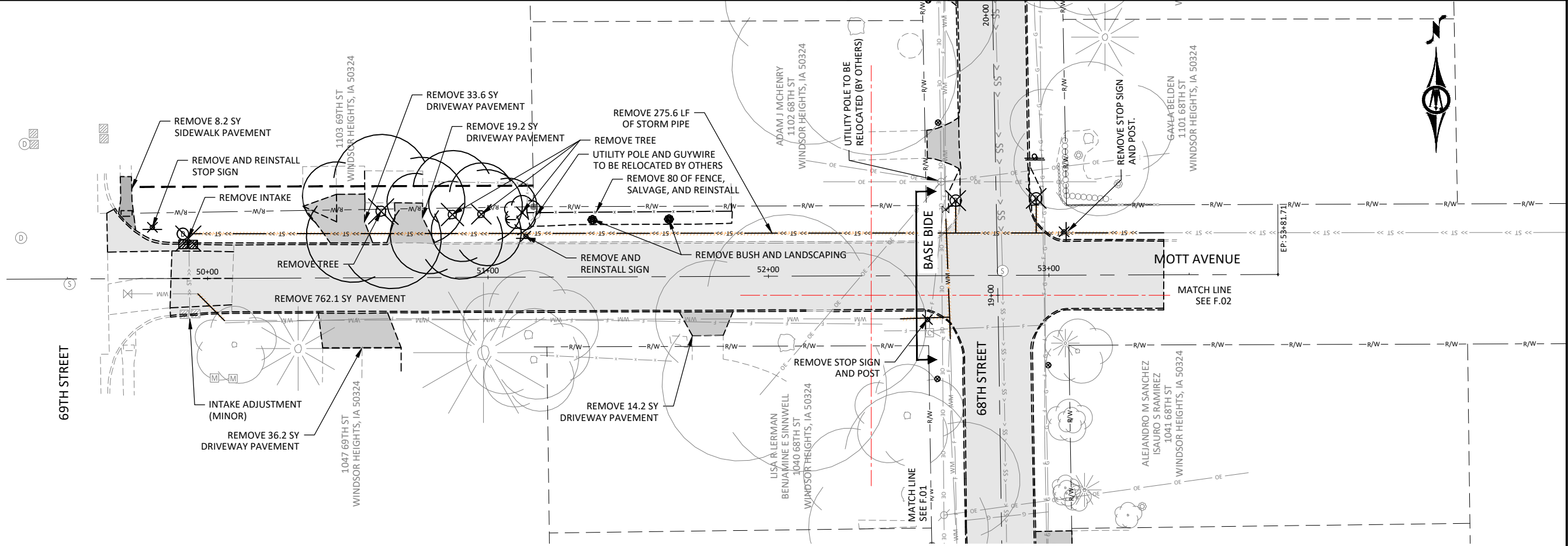
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68TH STREET SOUTH RECONSTRUCTION
REMOVAL SHEETS - 68TH STREET

SHEET
F.02

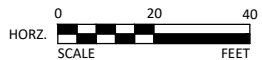
REMOVAL LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY REMOVAL
- SIDEWALK REMOVAL
- PIPE REMOVAL
- ITEM REMOVAL

NOTE:
1. EXISTING WATER MAIN TO BE CAPPED AND ABANDONED IN PLACE. SPOT REMOVALS MY BE NECESSARY TO INSTALL NEW WATER MAIN OR OTHER UNDERGROUND UTILITIES.
2. EXISTING SIGNS ON UTILITIES POLE TO BE REMOVE AND SALVAGE.



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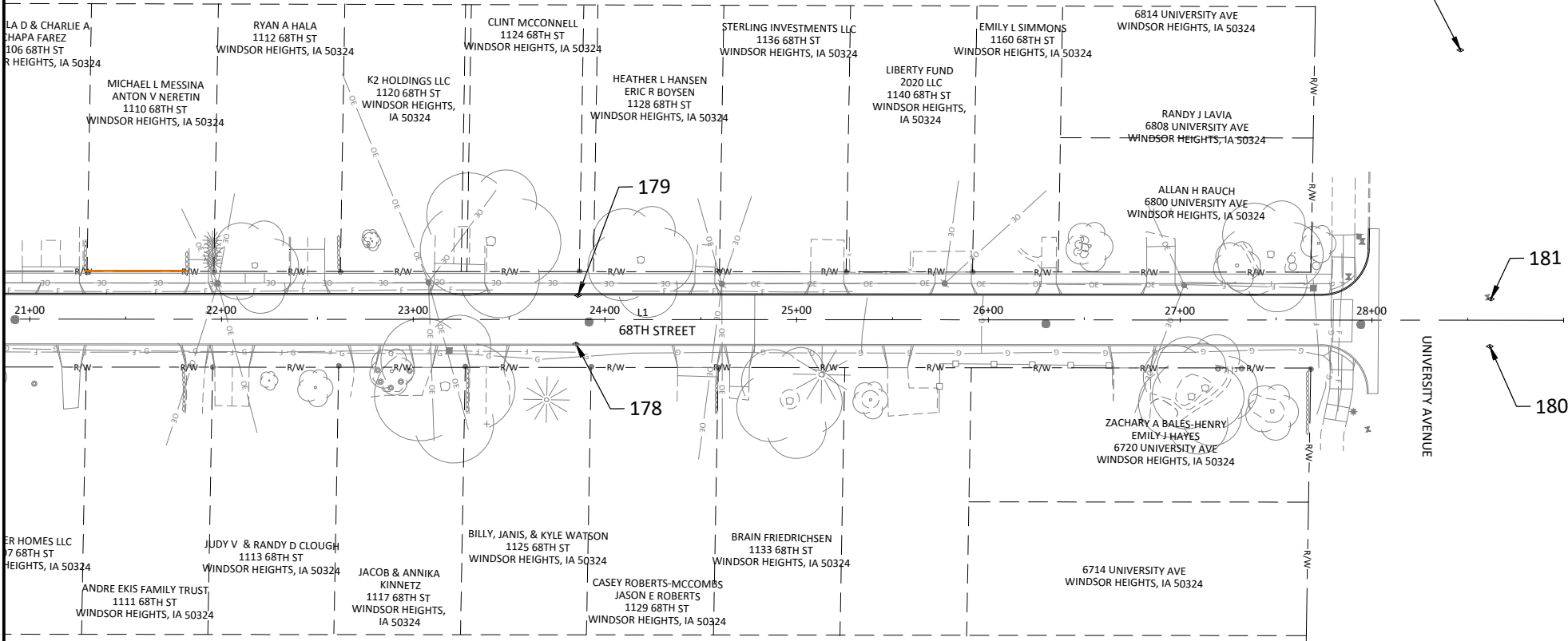


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68TH STREET SOUTH RECONSTRUCTION
REMOVAL SHEET - MOTT AVENUE

SHEET
F.03



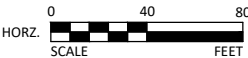
68TH ST - ALIGNMENT DATA						
LINE #	LENGTH	BEARING	START POINT	END POINT	STATION START	STATION END
L1	992.8945	N1° 03' 19.89"W	N: 582252.0487, E: 1582706.9343	N: 583244.7747, E: 1582688.6438	9+00	28+99.99

MOTT AVE - ALIGNMENT DATA						
LINE #	LENGTH	BEARING	START POINT	END POINT	STATION START	STATION END
L2	381.7114	N89° 46' 37.03"E	N: 582250.5627, E: 1582325.2258	N: 582252.0487, E: 1582706.9343	49+00	53+81.71

MOTT AVE - ALIGNMENT DATA						
LINE #	LENGTH	BEARING	START POINT	END POINT	STATION START	STATION END
L3	200.0000	N89° 50' 32.87"E	N: 581344.7921, E: 1582621.1895	N: 581345.3420, E: 1582821.1887	39+00	41+00

POINT LAT/LONG DATA				
POINT NUMBER	RAW DESCRIPTION	ELEVATION	NORTH	EAST
170	VFCP /CUT X BOC	823.930	581332.36	1582545.00
171	VFCP /CUT X BOC	825.774	581332.60	1582722.00
172	VFCP /CUT X BOC	828.067	581333.46	1582962.43
173	VFCP /CUT X BOC	852.561	582265.30	1582952.50
174	VFCP /CUT X INTAKE	844.500	582279.40	1582719.25
175	VFCP /CUT X INTAKE	844.409	582288.43	1582693.28
176	VFCP /CUT X BOC	832.517	581799.54	1582701.57
177	VFCP /CUT X BOC BETWEEN INTAKES	836.900	582263.53	1582418.34
178	VFCP /CUT X INTAKE	860.652	582730.04	1582710.93
179	VFCP /CUT X INTAKE	860.075	582730.55	1582685.54
180	VFCP /CUT X BOC	873.757	583206.56	1582703.01
181	VFCP /CUT X BOC	873.327	583206.71	1582678.24
182	VFCP /CUT X EOWK	870.279	583188.26	1582548.65
183	VFCP /CUT X LP BASE	880.324	583186.20	1583024.02
184	VFCP /CUT X BOC	832.161	581788.32	1582726.42

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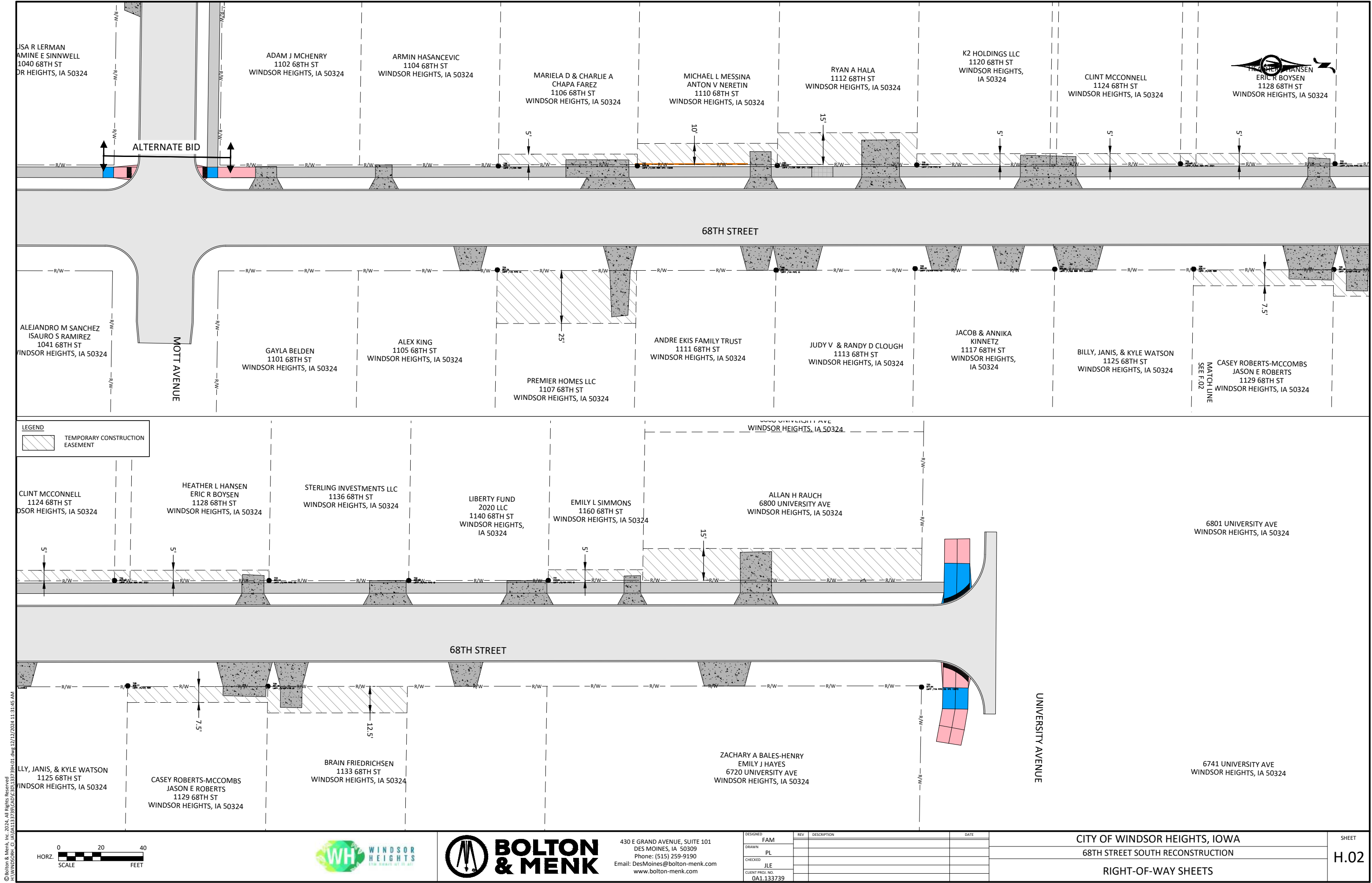


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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
ALIGNMENT AND CONTROL DATA

SHEET
G.02



STAGING NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING PROPERTY OWNERS ALONG 68TH STREET A MINIMUM OF 7 CALENDAR DAYS PRIOR TO CHANGES IN ACCESS.
2. HAUL ROUTES SHALL BE APPROVED BY THE CITY PRIOR TO INITIATING HAULING.
3. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ON THE PROJECT SITE. WATER SHALL BE USED AT THE REQUEST OF THE ENGINEER AND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
4. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF HAUL ROUTES AND TEMPORARY ACCESS SIDEWALKS OR DRIVES.

STAGING GENERAL NOTES

1. CONTRACTOR SHALL BEGIN WORK IN STAGE 1. SEE STAGING GENERAL NOTE 2 FOR PROGRESSION OF WORK AFTER STAGE 1.
2. IT IS RECOGNIZED THAT AS THE VARIOUS ACTIVITIES RELATED TO CONSTRUCTION PROGRESS, CERTAIN SITUATIONS MAY ARISE WHICH WILL PRECLUDE ADHERING TO THE ORIGINAL CONSTRUCTION SEQUENCE OR WHICH WOULD READILY LEND THEMSELVES TO MORE EFFICIENT STAGING OPERATIONS. SHOULD THE CONTRACTOR DESIRE TO DEVIATE FROM THE ORIGINAL PLAN, A WRITTEN ALTERNATIVE PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PROPOSED CHANGES.
3. WORK EXECUTED BETWEEN OCTOBER 1 AND APRIL 1, THAT IMPACTS TRAFFIC, SHALL BE APPROVED BY THE CITY. ROADWAYS SHALL BE REPAVED AND REOPENED BEFORE THE FIRST SNOWFALL.
4. IT IS THE PROJECT INTENT TO COMPLETE THE DRIVEWAYS, SIDEWALK AND SURFACE RESTORATION IMMEDIATELY FOLLOWING THE COMPLETION OF THE ROADWAY PAVEMENT.
5. ALL SEGMENTS OF ROADWAY SHALL BE SWEEPED AND CLEANED FROM ALL DEBRIS. FLUSH THE SURFACE WITH WATER IF DUST IS AN ISSUE PRIOR TO OPENING.
6. REFER TO IOWA DOT TRAFFIC CONTROL STANDARD DRAWINGS TO HANDLE CERTAIN SITUATIONS DURING CONSTRUCTION. COORDINATE WITH THE ENGINEER.

STAGE 1 - TRAFFIC

1. SET UP TRAFFIC CONTROL FOR STAGE 1 AS SHOWN IN THE J SHEETS OR AS DEEMED NECESSARY.
2. CONTRACTOR TO DETERMINE NEEDED LANE CLOSURES ON UNIVERSITY AVENUE. PROVIDE LAYOUTS AND NOTICE TO CITY 48 HOURS PRIOR TO LANE CLOSURES.
3. SCHOOL STREET AND PUBLIC WORKS DRIVEWAY CLOSURE TO BE MINIMIZED. WHEN NO WORK IS ANTICIPATED WITHIN 2 DAYS, BOTH SHALL BE OPENED UP TO TRAFFICE.

STAGE 1 - CONSTRUCTION

1. CLOSE ROADWAY AFTER PROVIDING RESIDENT NOTICES.
2. TOPSOIL SALVAGE AND STOCKPILE OR HAUL OFF SITE.
3. INSTALL TEMPORARY SIDEWALK ON BOTH SIDES OF THE STREET FOR THE ENTIRE STAGE.
4. REMOVE EXISTING 68TH STREET ROADWAY.
5. PAVEMENT REMOVAL ON SCHOOL STREET AND PUBLIC WORKS DRIVEWAY TO OCCUR JUST PRIOR TO STREET GRADING OR AS REQUIRED TO INSTALL WATER MAIN AND STORM SEWER. SCHOOL STREET AND PUBLIC WORKS DRIVEWAY TO BE ROCKED TO ALLOW USE DURING CONSTRUCTION
6. GRADE, INSTALL WATER MAIN AND STORM SEWER, INSTALL SANITARY SEWER SERVICES
7. STAGE 2 MAY BEGIN ONCE ALL UNDERGROUND PIPE WORK IS COMPLETE AND AS APPROVED BY THE ENGINEER.
8. INSTALL SUBDRAIN, PAVE ROADWAY, PAVE DRIVEWAYS, BACKFILL, INSTALL SIDEWALK, AND SURFACE RESTORATION.
9. SCHOOL STREET AND PUBLIC WORKS DRIVEWAY TO BE GRADED AND POURED BACK IMMEDIATELY AFTER ALL UNDERGROUND WORK IS COMPLETED.
10. COORDINATE PUBLIC WORKS DRIVEWAY CLOSURE 7 CALENDAR DAYS PRIOR TO PAVEMENT REMOVAL.

STAGE 2 - TRAFFIC

1. SET UP TRAFFIC CONTROL FOR STAGE 2 AS SHOWN IN THE J SHEETS OR AS DEEMED NECESSARY.
2. CONTRACTOR TO DETERMINE NEEDED LANE CLOSURES ON UNIVERSITY AVENUE. PROVIDE LAYOUTS AND NOTICE TO CITY 72 HOURS PRIOR TO LANE CLOSURES.

STAGE 2 - CONSTRUCTION

1. CLOSE ROADWAY AFTER PROVIDING RESIDENT NOTICES.
2. TOPSOIL SALVAGE AND STOCKPILE OR HAUL OFF SITE.
3. INSTALL TEMPORARY SIDEWALK ON BOTH SIDES OF THE STREET FOR THE ENTIRE STAGE.
6. REMOVE EXISTING ROADWAY, GRADE, INSTALL WATER MAIN AND STORM SEWER, INSTALL SANITARY SEWER SERVICES, INSTALL SUBDRAIN, PAVE ROADWAY, PAVE DRIVEWAYS, BACKFILL, INSTALL SIDEWALK, AND SURFACE RESTORATION.
7. PAVEMENT REMOVALS ON UNIVERSITY AVENUE TO OCCUR JUST BEFORE WATER MAIN INSTALLATION.
8. UNIVERSITY AVENUE TO BE GRADED AND POURED BACK IMMEDIATELY AFTER ALL UNDERGROUND WORK IS COMPLETED TO MINIMIZE LANE CLOSURES.

STAGE 3 - TRAFFIC

1. SET UP TRAFFIC CONTROL FOR STAGE 2 AS SHOWN IN THE J SHEETS.

STAGE 3 - CONSTRUCTION

1. CLOSE ROADWAY AFTER PROVIDING RESIDENT NOTICES.
2. TOPSOIL SALVAGE AND STOCKPILE OR HAUL OFF SITE.
3. INSTALL TEMPORARY SIDEWALK ON BOTH SIDES OF THE STREET FOR THE ENTIRE STAGE.
4. INSTALL TEMPORARY DRIVEWAY OFF 69TH STREET.
5. REMOVE EXISTING ROADWAY, GRADE, INSTALL WATER MAIN AND STORM SEWER, INSTALL SUBDRAIN, PAVE ROADWAY, PAVE DRIVEWAYS, BACKFILL, INSTALL SIDEWALK, AND SURFACE RESTORATION.

TRAFFIC CONTROL PLAN

1. CONTRACTOR TO VERIFY TRAFFIC CONTROL DEVICES AT A MINIMUM OF ONCE A DAY OR IMMEDIATELY AFTER A WEATHER EVENT. CORRECT AS NECESSARY.
2. THE CONTRACTOR SHALL PROVIDE 48 HOURS STREET/LANE CLOSURE NOTICE TO THE CITY.
3. TRAFFIC CONTROL SIGNS INSTALLED FOR MORE THAN THREE DAYS SHALL BE POST MOUNTED.

THE CONTRACTOR SHALL EMPLOY SOUND PRACTICES OF SAFETY AND TRAFFIC CONTROL. THESE METHODS AND PRACTICES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

1. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH OTHER PROJECTS.
2. TRAFFIC CONTROL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH SPECIFIC LAYOUTS ON THESE PLANS. TRAFFIC CONTROL DEVICES, PROCEDURES, AND LAYOUTS SHALL BE PER CURRENT PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
3. AT FULL CLOSURE LOCATIONS, CONTRACTOR SHALL PROVIDE ENOUGH TYPE III BARRICADES TO COMPLETELY CROSS THE ROADWAY.
4. SIGN WASHING SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE PROJECT ENGINEER.

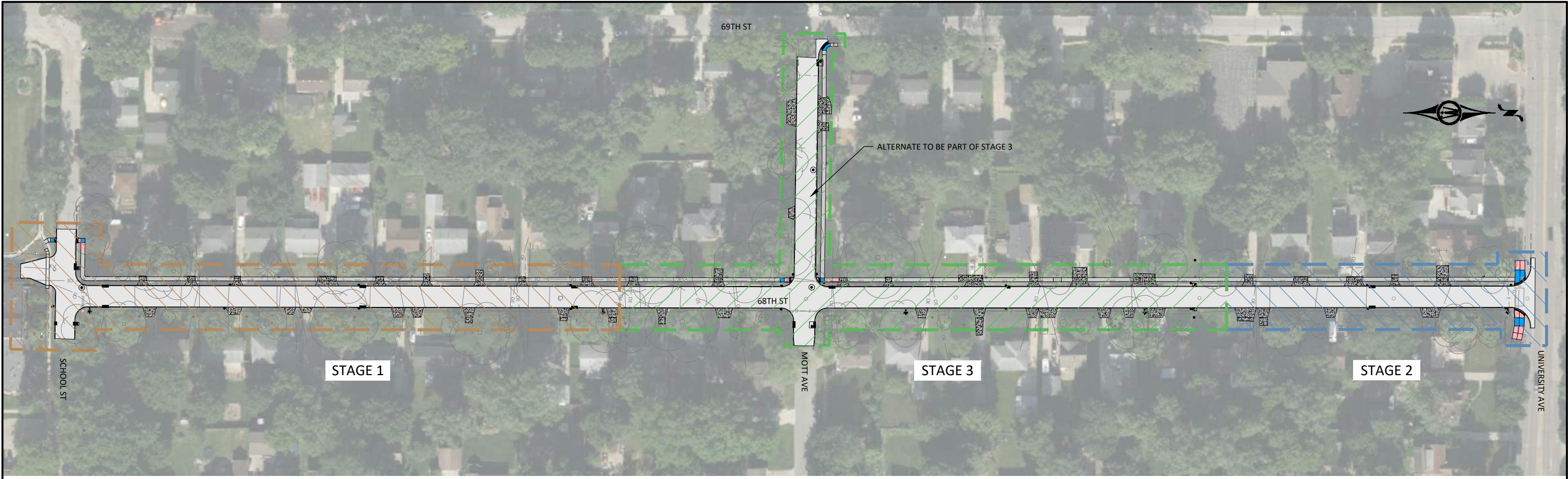
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CITY OF WINDSOR HEIGHTS, IOWA	J.01
68TH STREET SOUTH RECONSTRUCTION	
STAGING AND TRAFFIC CONTROL NOTES	



STAGING NOTES:

1. THE CONTRACTOR IS TO CONSTRUCT THE PROJECT IN 3 STAGES. THE CONTRACTOR SHALL PROVIDE A STAGING PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. ANY ADJUSTMENT TO THE STAGING/TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF WINDSOR HEIGHTS AND ENGINEER ON RECORD A MINIMUM OF TWO WEEKS IN ADVANCE.
3. THE CONTRACTOR SHALL REQUEST, IN WRITING, PERMISSION TO START EACH STAGE OF THE PROJECT AND SUBMIT AN UPDATED SCHEDULE FOR EACH STAGE UNDER CONSTRUCTION
4. THE ROAD SHALL BE SCRAPPED AND BROOMED PRIOR TO OPENING THE STREET TO TRAFFIC.
5. SITE RESTORATION SHALL BE COMPLETED PRIOR TO NEXT STAGE STARTING OR APPROVED BY ENGINEER.
6. REFER TO WATER MAIN PLANS FOR WATER MAIN PHASING.
7. WATER MAIN DESIGN ASSUMES WATER MAIN WILL BE INSTALLED STARTING AT SCHOOL STREET AND ENDING AT UNIVERSITY AVENUE.
8. PROPOSED CHANGES TO STAGING MUST BE REVIEW BY DMWW.

MAINTAINING MOBILITY FOR HANDICAPPED RESIDENTS:

1. DUE TO THE MOBILITY ISSUES OF SEVERAL RESIDENTS ALONG THE CORRIDOR, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN RUBBER MATTING PROVIDED BY THE CITY AND INSTALLED AS DIRECTED BY ENGINEER.
2. CONTRACTOR TO MAINTAIN TEMPORARY SIDEWALK AND DRIVEWAY GRADING.

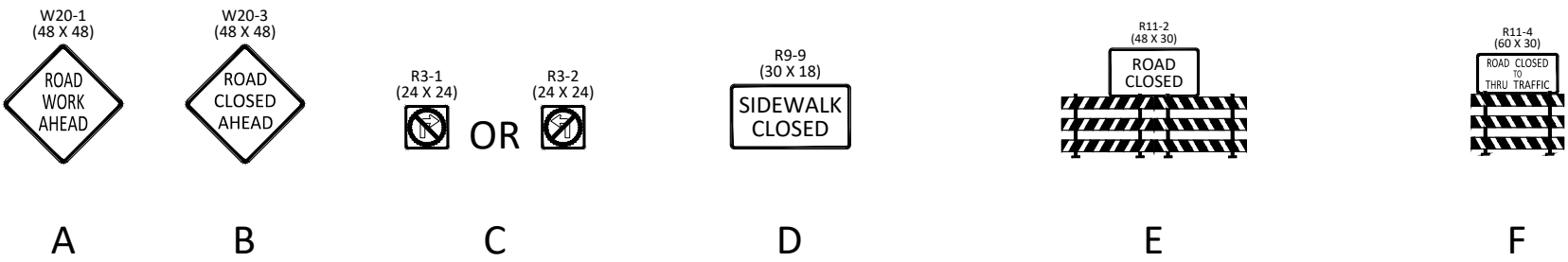
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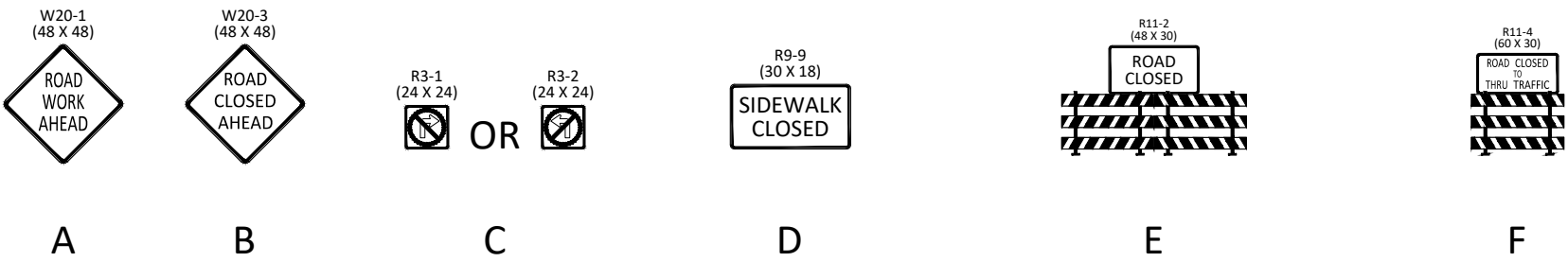


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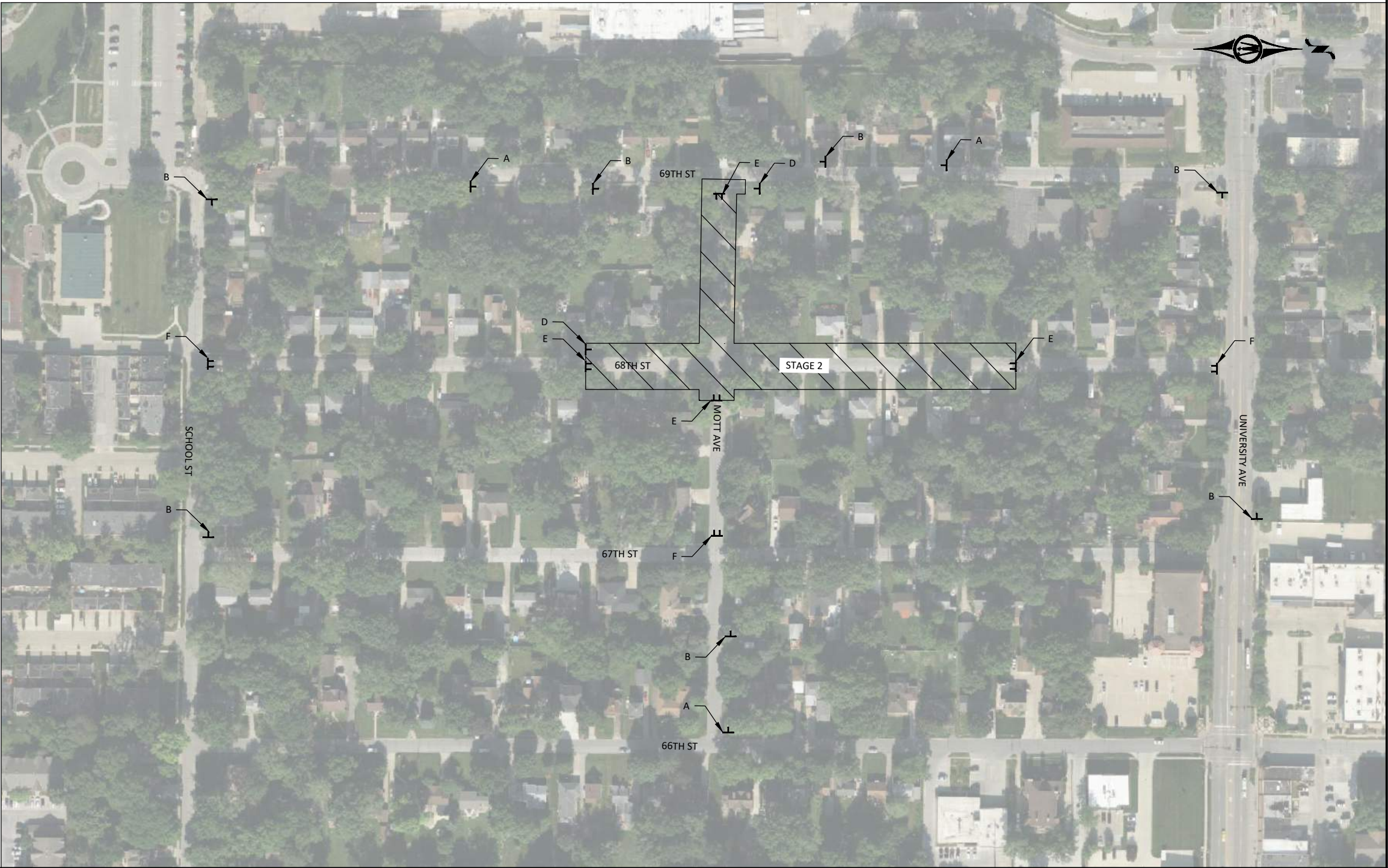
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68TH STREET SOUTH RECONSTRUCTION	
STAGING AND TRAFFIC CONTROL - 68TH STREET	

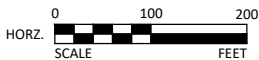




- TRAFFIC CONTROL NOTES:
- SPECIFIC TRAFFIC CONTROL LAYOUTS ARE SHOWN ON THESE PLANS. THESE ARE GENERAL TRAFFIC CONTROL LAYOUTS FOR INFORMATION ONLY.
 - SUBMIT DETAILED TRAFFIC CONTROL PLANS FOR ALL WORK LOCATIONS FOR APPROVAL PRIOR TO PRECONSTRUCTION MEETING. ALL TRAFFIC CONTROL PLANS, DEVICES, AND PROCEDURES SHALL CONFORM TO THE CURRENT VERSION OF THE MUTCD.
 - ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
 - PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF 3 DAYS OR LESS. ALL OTHER TRAFFIC CONTROL SHALL BE POST MOUNTED.
 - THE PROPOSED SIGNAGE MAY BE MODIFIED TO MEET FIELD CONDITIONS, PREVENT OBSTRUCTIONS AND TO ACCOMMODATE CONSTRUCTION SCHEDULING UPON APPROVAL OF THE PROJECT ENGINEER.
 - ORANGE SAFETY FENCE SHALL BE PLACED ENTIRELY ACROSS THE TRAVELED PORTION OF THE ROADWAY AT ALL LOCATIONS WHERE TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS ARE USED.
 - SIGNAGE MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.
 - ALL CONSTRUCTION SIGNS SHALL BE DIAMOND GRADE FLUORESCENT ORANGE OR WHITE V.I.P. SHEETING OR EQUIVALENT. (IOWA DOT TYPE VII SHEETING).
 - THE CONTRACTOR SHALL REMOVE AND REINSTALL ALL CITY SIGNS THAT WILL BE IN THE WAY.
 - AT THE TIME OF INITIAL SETUP OR AT THE TIME OF MAJOR STAGE CHANGES, 100 PERCENT OF EACH TYPE OF DEVICE (SIGNS, CONES, TUBULAR MARKERS, DRUMS, BARRICADES, VERTICAL PANELS, CHANGEABLE MESSAGE SIGNS, AND PAVEMENT MARKINGS) SHALL BE CLASSIFIED AS ACCEPTABLE BY THE REQUIREMENT OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), "QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES 1992." THROUGHOUT THE DURATION OF THE PROJECT, UNACCEPTABLE DEVICES OR SITUATIONS THAT ARE FOUND ON THE JOBSITE AS DETERMINED BY BEFORE MENTIONED PUBLICATION SHALL BE REPLACED OR THE SITUATION CORRECTED WITHIN 12 HOURS OF INITIAL NOTIFICATIONS BY THE ENGINEER.
 - THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER, AND THE CONTRACTOR SHALL PROVIDE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER.



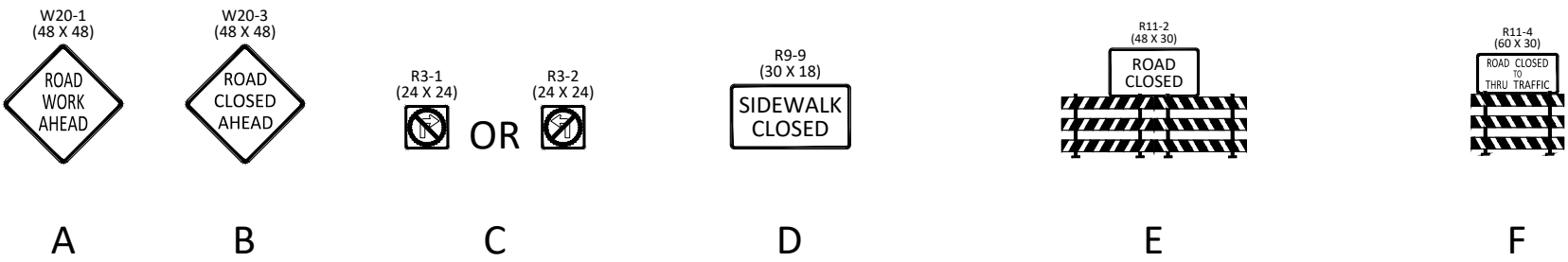
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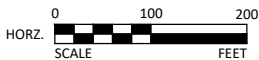
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68TH STREET SOUTH RECONSTRUCTION	J.04
TRAFFIC CONTROL - 68TH STREET	



- TRAFFIC CONTROL NOTES:
- SPECIFIC TRAFFIC CONTROL LAYOUTS ARE SHOWN ON THESE PLANS. THESE ARE GENERAL TRAFFIC CONTROL LAYOUTS FOR INFORMATION ONLY.
 - SUBMIT DETAILED TRAFFIC CONTROL PLANS FOR ALL WORK LOCATIONS FOR APPROVAL PRIOR TO PRECONSTRUCTION MEETING. ALL TRAFFIC CONTROL PLANS, DEVICES, AND PROCEDURES SHALL CONFORM TO THE CURRENT VERSION OF THE MUTCD.
 - ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
 - PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF 3 DAYS OR LESS. ALL OTHER TRAFFIC CONTROL SHALL BE POST MOUNTED.
 - THE PROPOSED SIGNAGE MAY BE MODIFIED TO MEET FIELD CONDITIONS, PREVENT OBSTRUCTIONS AND TO ACCOMMODATE CONSTRUCTION SCHEDULING UPON APPROVAL OF THE PROJECT ENGINEER.
 - ORANGE SAFETY FENCE SHALL BE PLACED ENTIRELY ACROSS THE TRAVELED PORTION OF THE ROADWAY AT ALL LOCATIONS WHERE TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS ARE USED.
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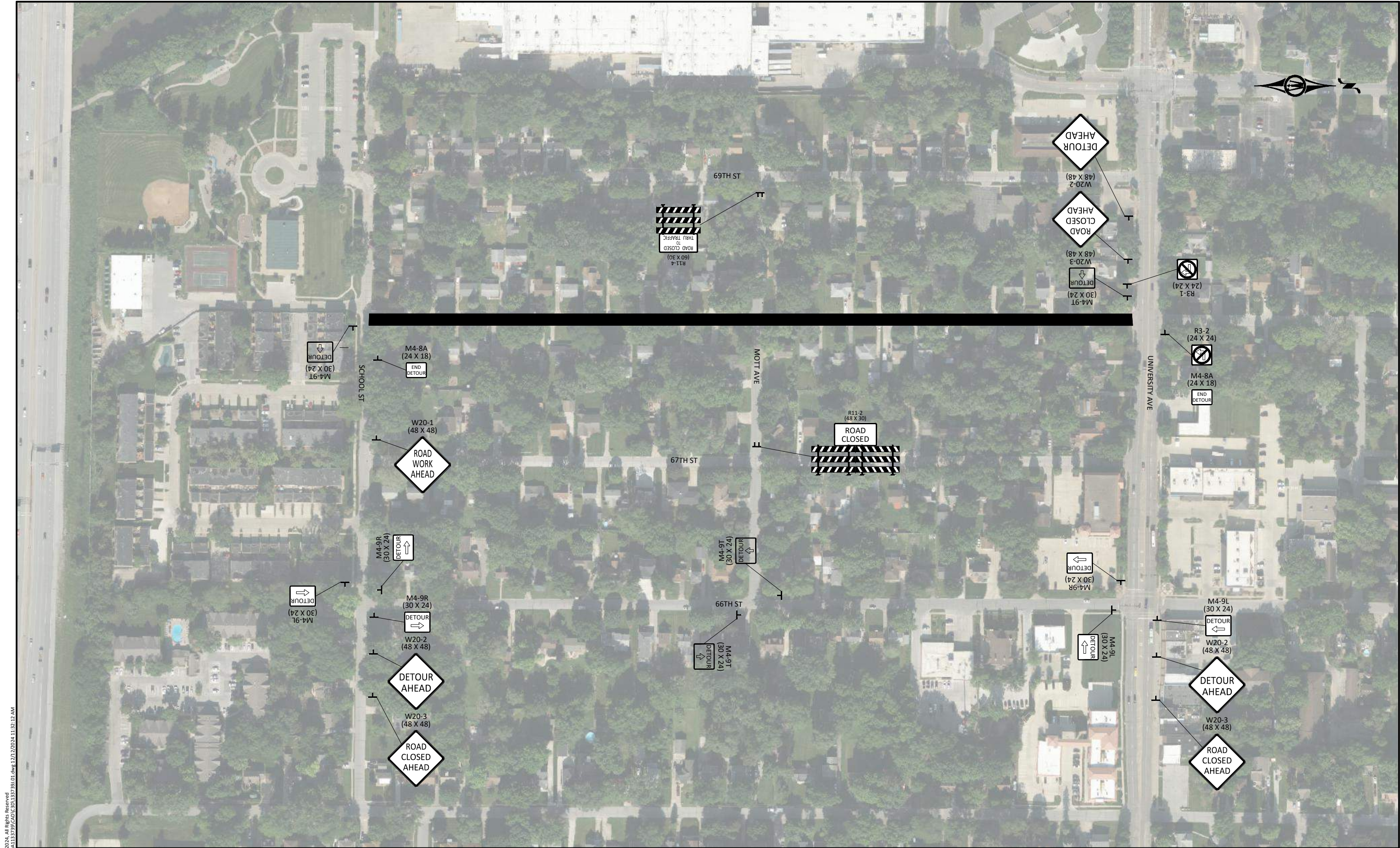
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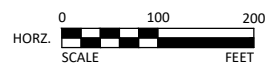
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68TH STREET SOUTH RECONSTRUCTION	J.05
TRAFFIC CONTROL - 68TH STREET	



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68TH STREET SOUTH RECONSTRUCTION

TRAFFIC CONTROL - 68TH STREET - DETOUR

SHEET
J.06

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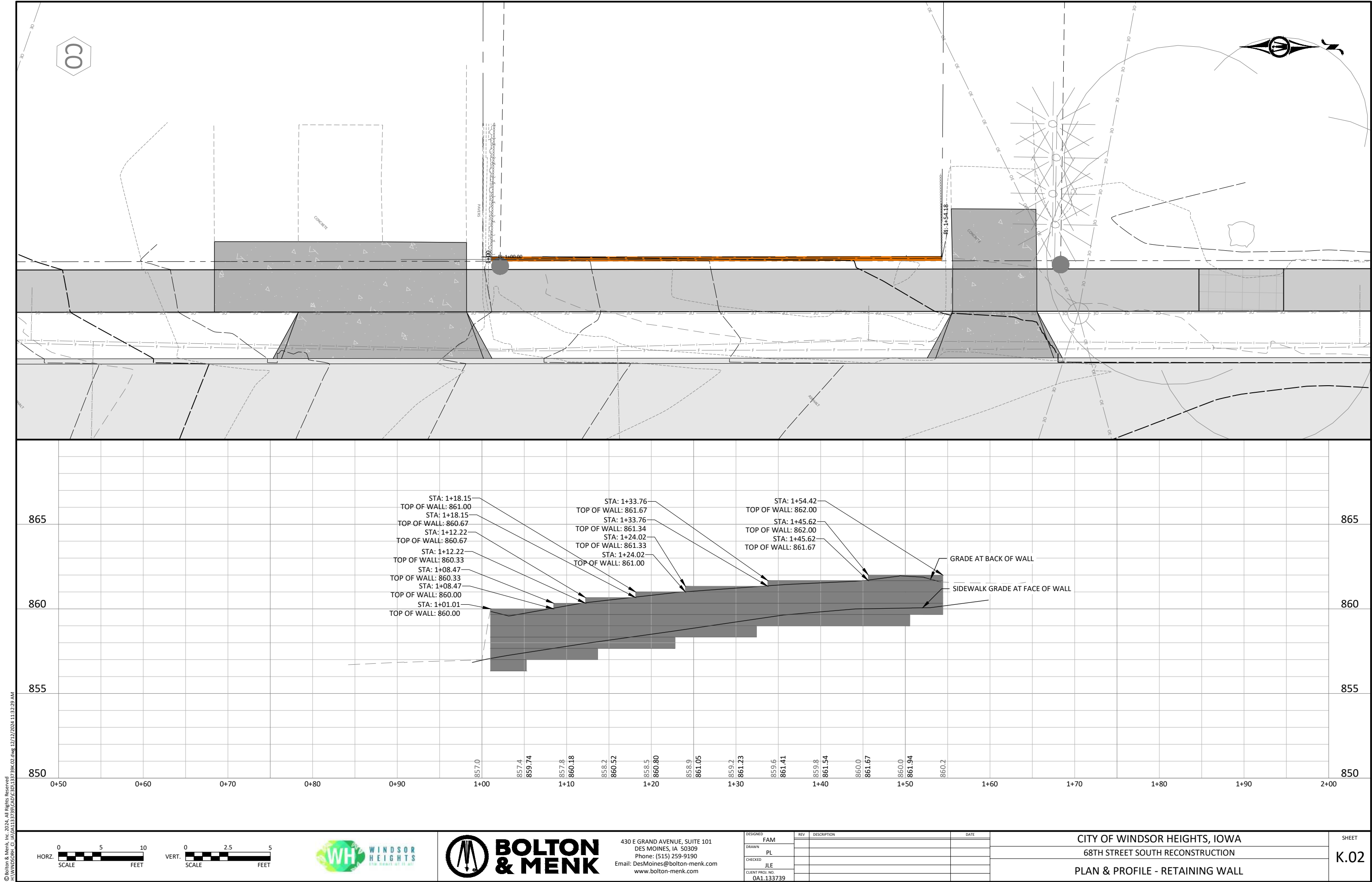


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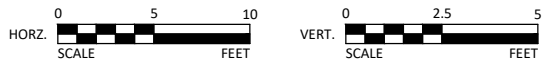
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CITY OF WINDSOR HEIGHTS, IOWA	SHEET K.01
68TH STREET SOUTH RECONSTRUCTION	
RETAINING WALL DETAILS	



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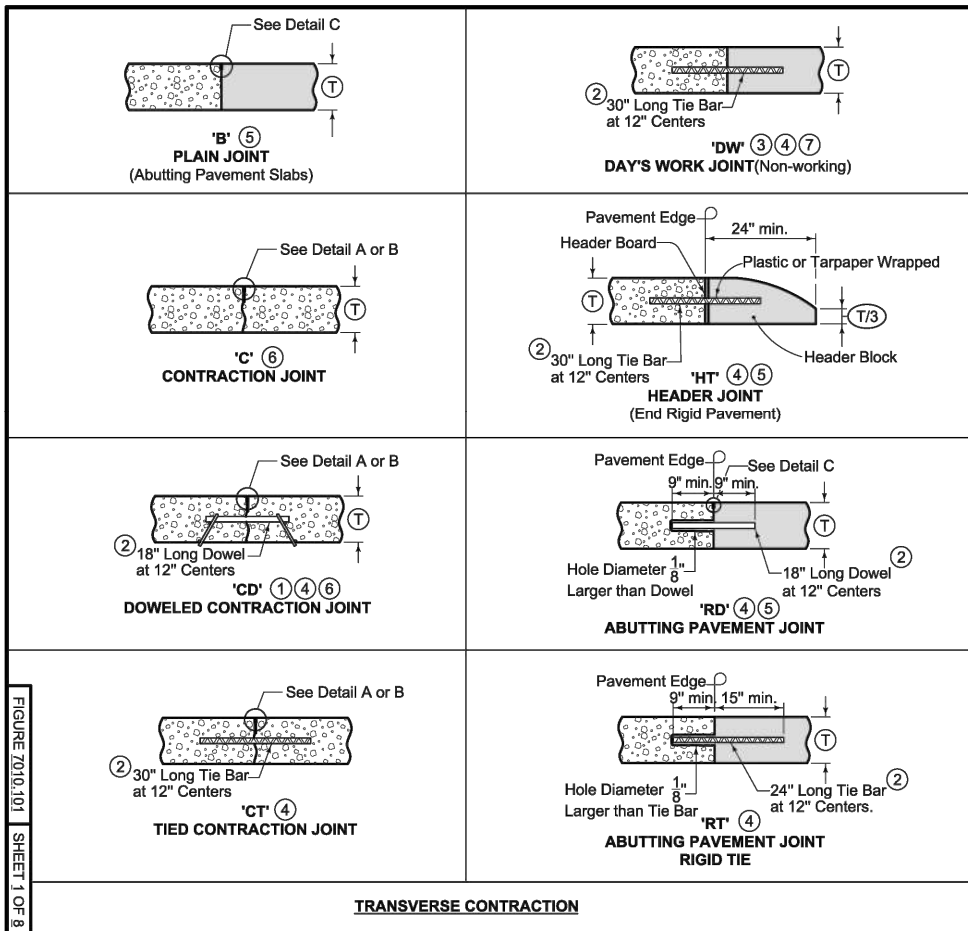
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68TH STREET SOUTH RECONSTRUCTION
PLAN & PROFILE - RETAINING WALL

SHEET
K.02

FIGURE 7010.101 SHEET 1 OF 8



- See dowel assemblies for fabrication details.
- See Bar Size Table for Contraction Joints on Sheet 2.
- Locate 'DW' joint at a mid-panel location between future 'C' or 'CD' joints. Place no closer than 5 feet to a 'C' or 'CD' joint.
- Place bars within the limits shown under dowel assemblies.
- Edge with 1/8 inch tool for length of joint. For HT joint, remove header block and board when second slab is placed.
- Unless specified otherwise, use 'CD' transverse contraction joints in mainline pavement when T is greater or equal to 8 inches. Use 'C' joints when T is less than 8 inches.
- 'RT' joint may be used in lieu of 'DW' joint at the end of the days work. Remove any pavement damaged due to the drilling at no additional cost to the Contracting Authority.

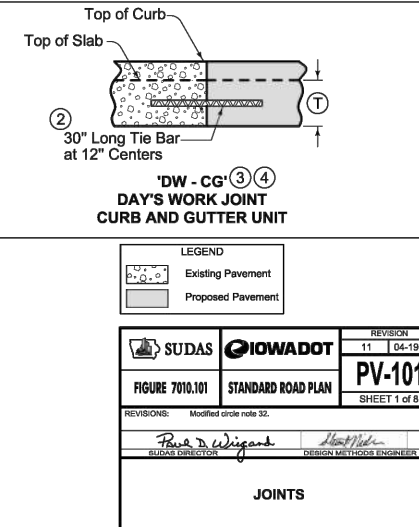
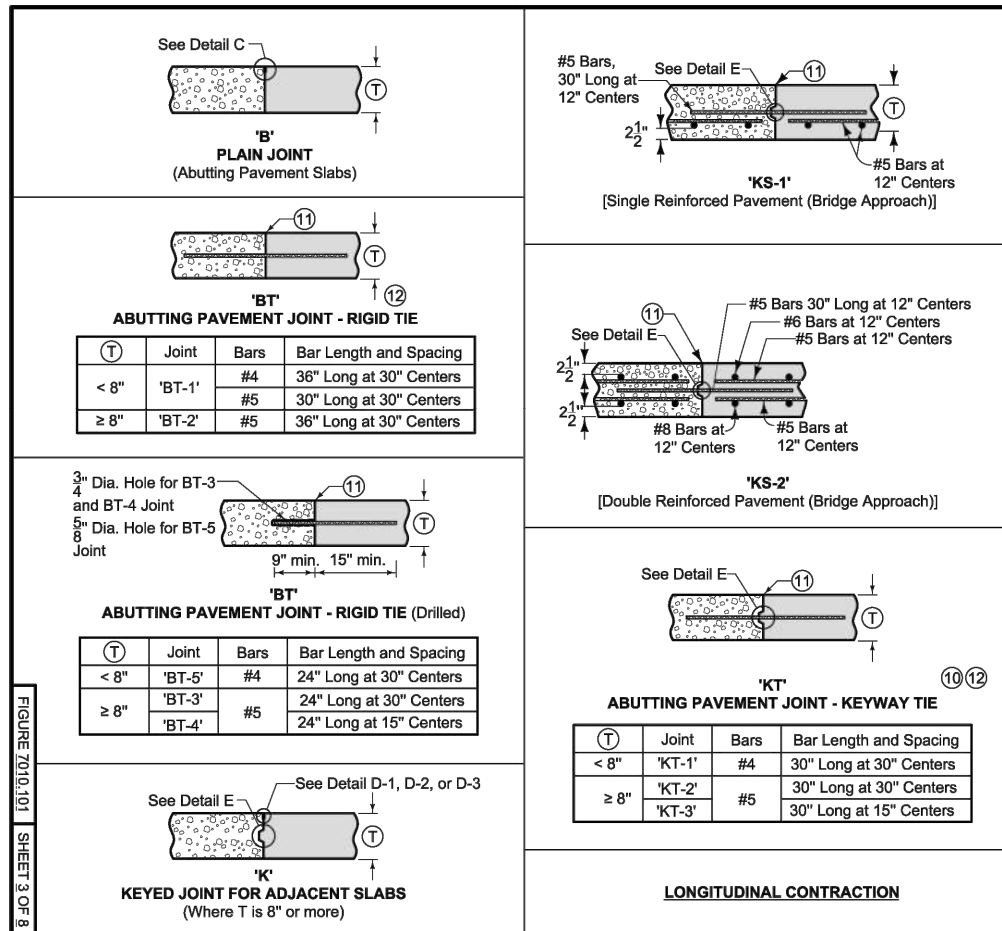


FIGURE 7010.101 SHEET 3 OF 8



- Bar supports may be necessary for fixed form paving to ensure the bar remains in a horizontal position in the plastic concrete.
- The following joints are interchangeable, subject to the pouring sequence:
'BT-1', 'L-1', and 'KT-1'
'KT-2' and 'L-2'
'KT-3' and 'L-3'

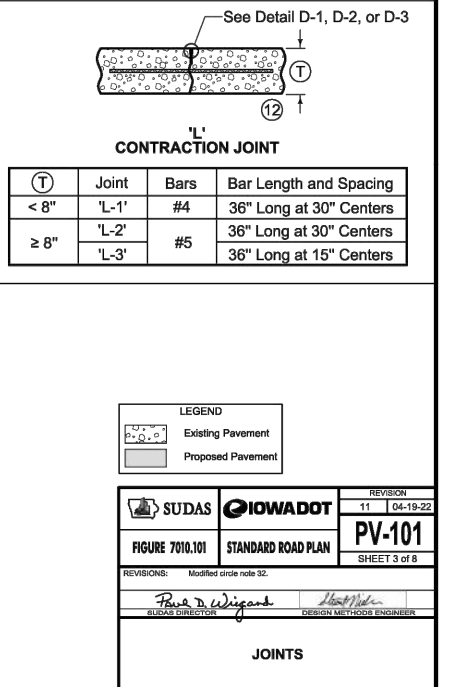
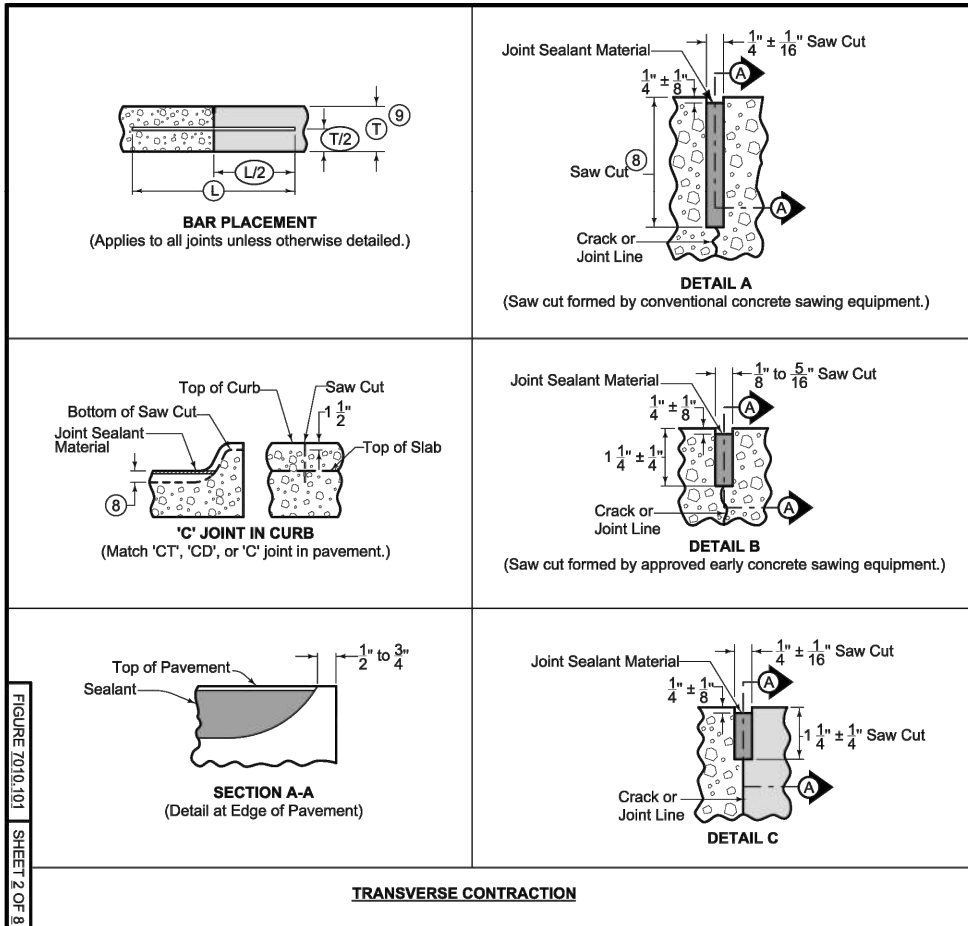


FIGURE 7010.101 SHEET 2 OF 8



- Saw 'CD' joint to a depth of $T/3 \pm 1/4"$; saw 'C' joint to a depth of $T/4 \pm 1/4"$.
- When tying into old pavement, T represents the depth of sound PCC.

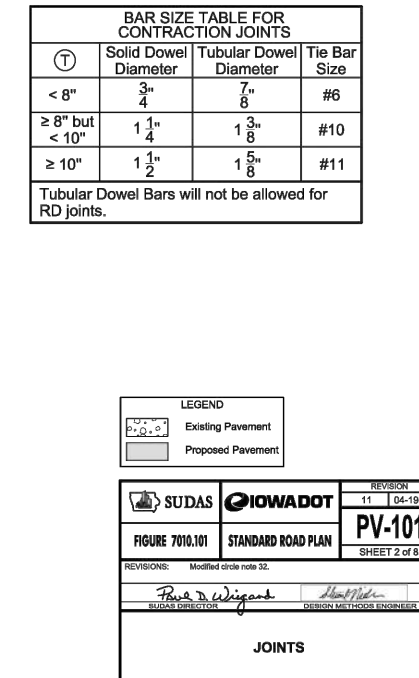
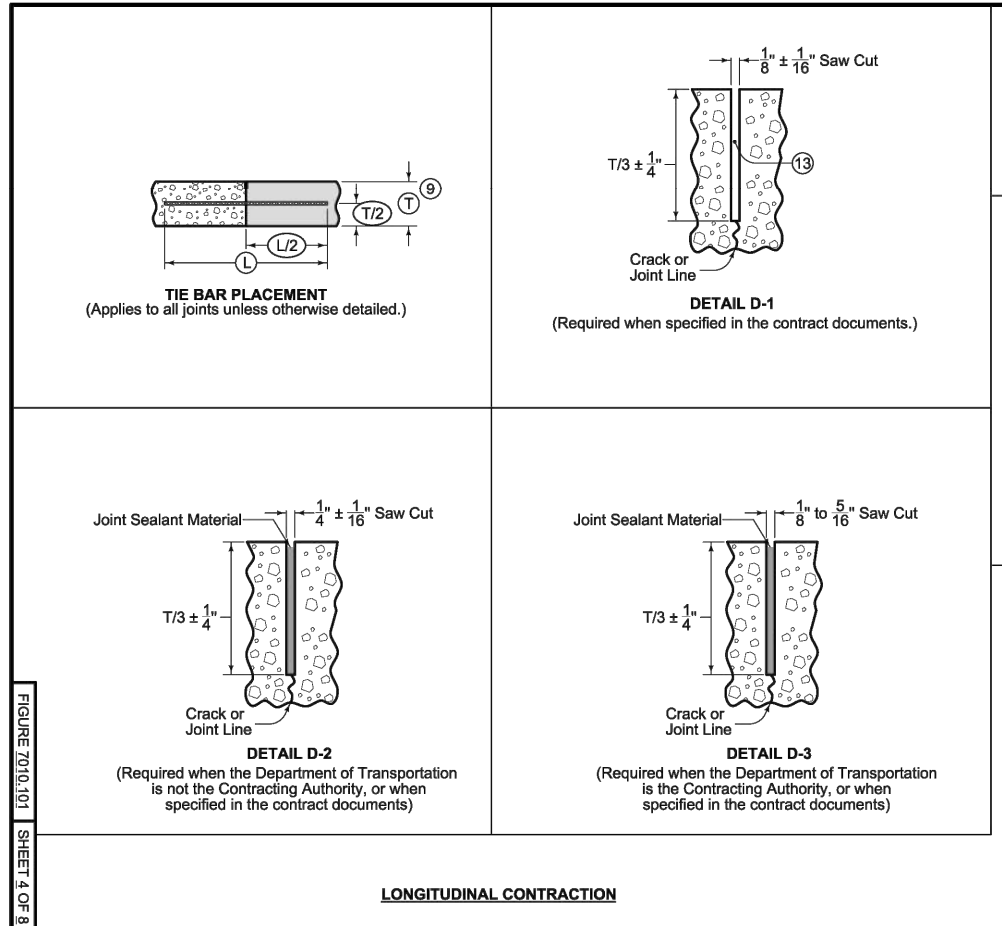
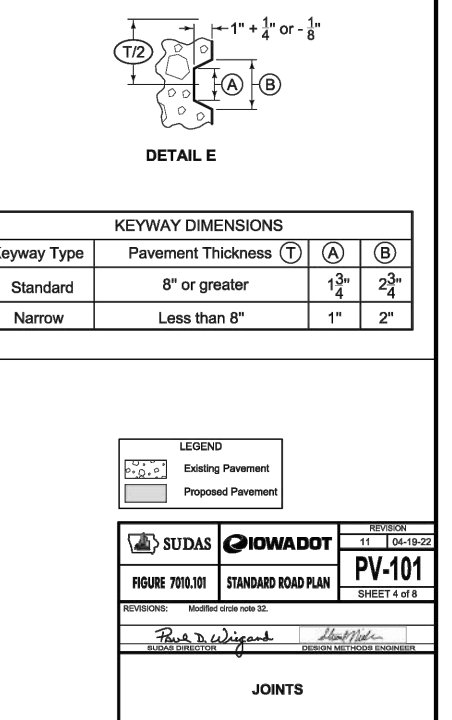
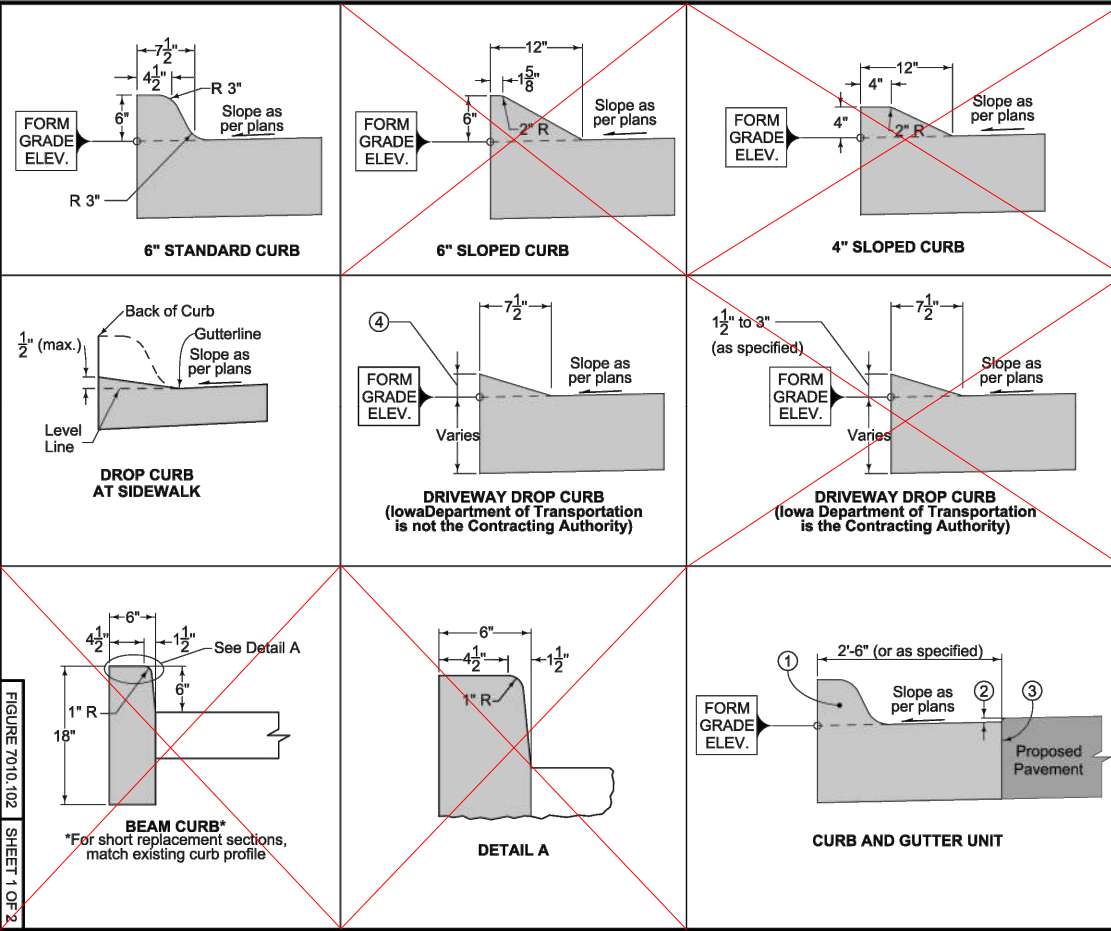


FIGURE 7010.101 SHEET 4 OF 8



- When tying into old pavement, T represents the depth of sound PCC.
- Sealant or cleaning not required.





For joint details, see PV-101.

- 6 inch Standard Curb, 6 inch Sloped Curb, or 4 inch Sloped Curb as specified.
- $\frac{1}{8}$ inch if Proposed Pavement is HMA. No elevation difference if Proposed Pavement is PCC.
- 'BT', 'KT', or 'L' joint if Proposed Pavement is PCC. 'B' joint if Proposed Pavement is HMA.
- 0 to 2 inches for residential entrances.
 $1\frac{1}{2}$ to 3 inches for industrial or commercial entrances.

REVISION	DATE
5	04-21-20

PV-102
SHEET 1 of 2

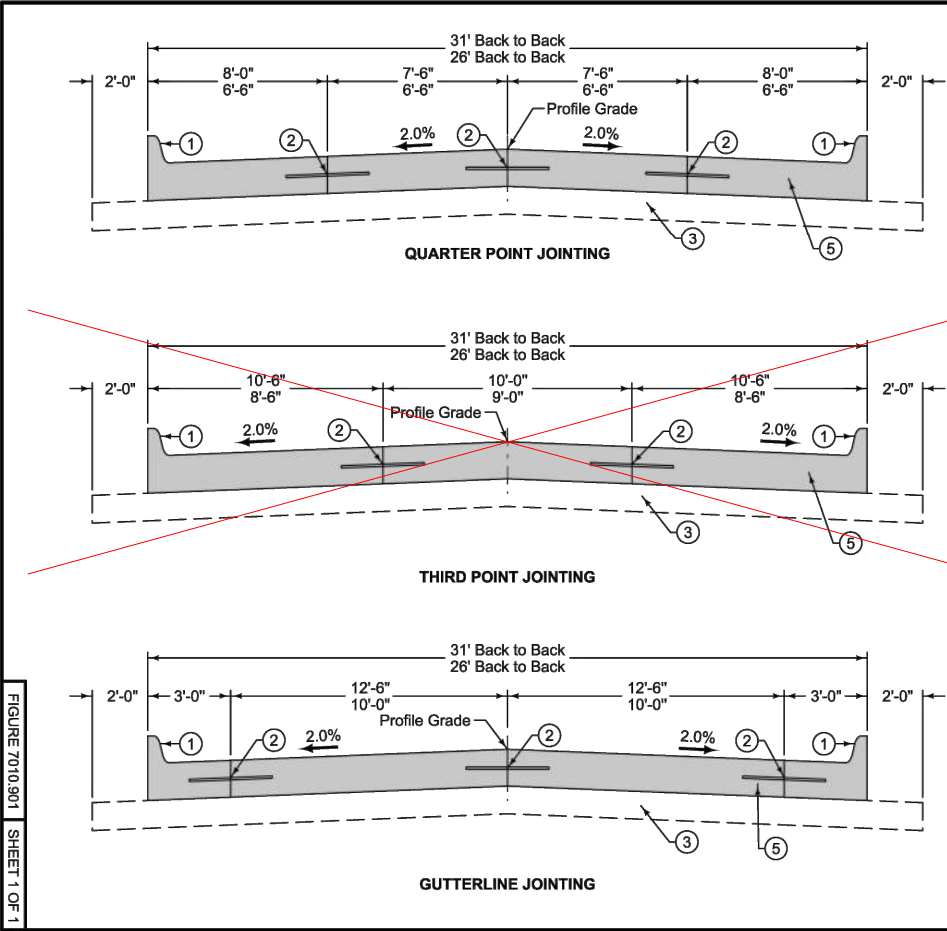
FIGURE 7010.102 STANDARD ROAD PLAN

REVISIONS: Split DRIVEWAY DROP CURB detail into two details. Added new circle note 4 on Sheet 1. Re-numbered other note on Sheet 5.

Paul D. Weigand
SUDAS DIRECTOR

Mark Miller
DESIGN METHOD ENGINEER

PCC CURB DETAILS



- 6 inch standard curb.
- BT, KT, or L joint depending on pavement thickness and construction staging.
- Subbase or subgrade as specified.
- Unless otherwise specified in the contract documents.
- No dowels within 24" of the back of curb. With gutterline joint, place first dowel 6 inches from the joint. See Figure 7010.101, Sheet 8.

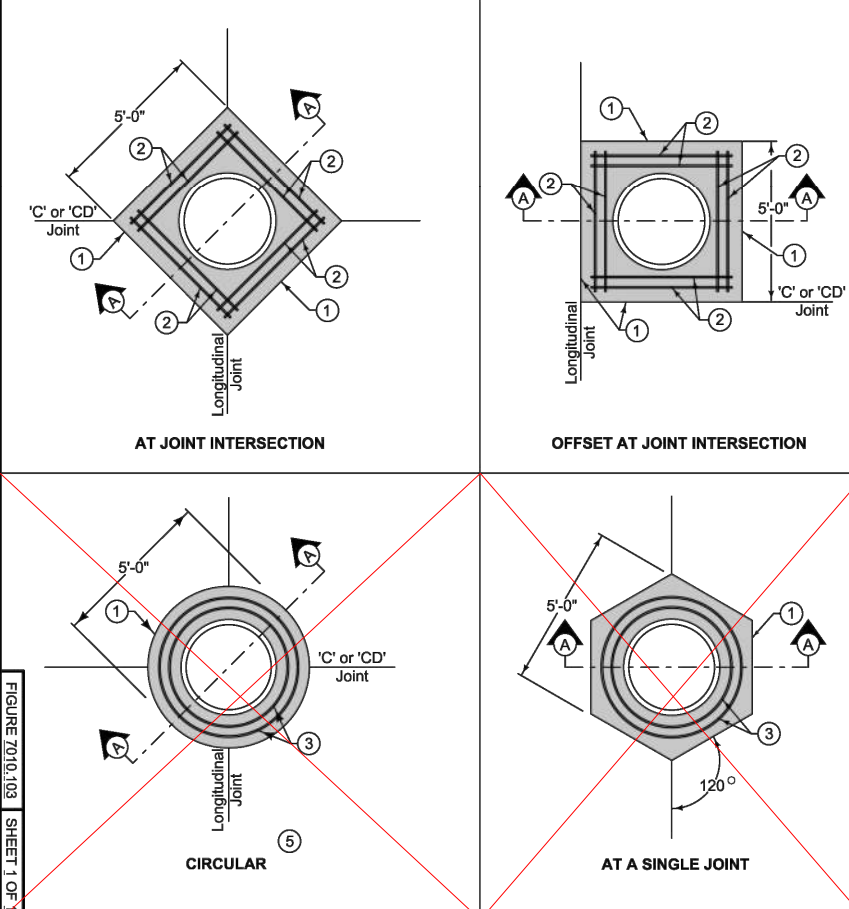
TRANSVERSE JOINT REQUIREMENTS ④		
Pavement Thickness	Transverse Joint Type	Transverse Joint Spacing
6"	C	12'
7"	C	15'
8"	CD ⑤	15'
9"	CD ⑤	15'
≥10"	CD ⑤	17'

REVISION	DATE
2	2022 Edition

7010.901
SHEET 1 of 1

SUDAS Standard Specifications

PCC PAVEMENT JOINTING



Construct boxout with Class C concrete or match pavement class. Minimum 2 inches clear on reinforcement. Minimum 12 inches of concrete between outside of casting and nearest joint. Center casting within boxout area if possible.

- 'KT-1', 'KT-2', 'BT-1', or 'BT-2' joint if three-piece floating casting (SW 601 Type B and D or SW-602 Type F) is used. 'E' joint if two-piece fixed casting (SW 601 Type A and C or SW-602 Type E) is used.
- 4 foot 8 inch (typ.) #4 bar. Place at mid-slab.
- #4 hoops (variable length). Place at mid-slab.
- No boxout is required for three-piece floating castings (SW 601 Type B and D or SW-602 Type F). If a boxout is used with a three-piece casting, construct as detailed in Section A-A for three-piece floating casting.
- If a circular boxout is cut and extracted after PCC construction, a 'B' joint may be substituted for the 'E' joint if approved by the Engineer.

SECTION A-A
(For two-piece fixed casting)

SECTION A-A ④
(For three-piece floating casting)

REVISION	DATE
2	04-19-22

PV-103
SHEET 1 of 1

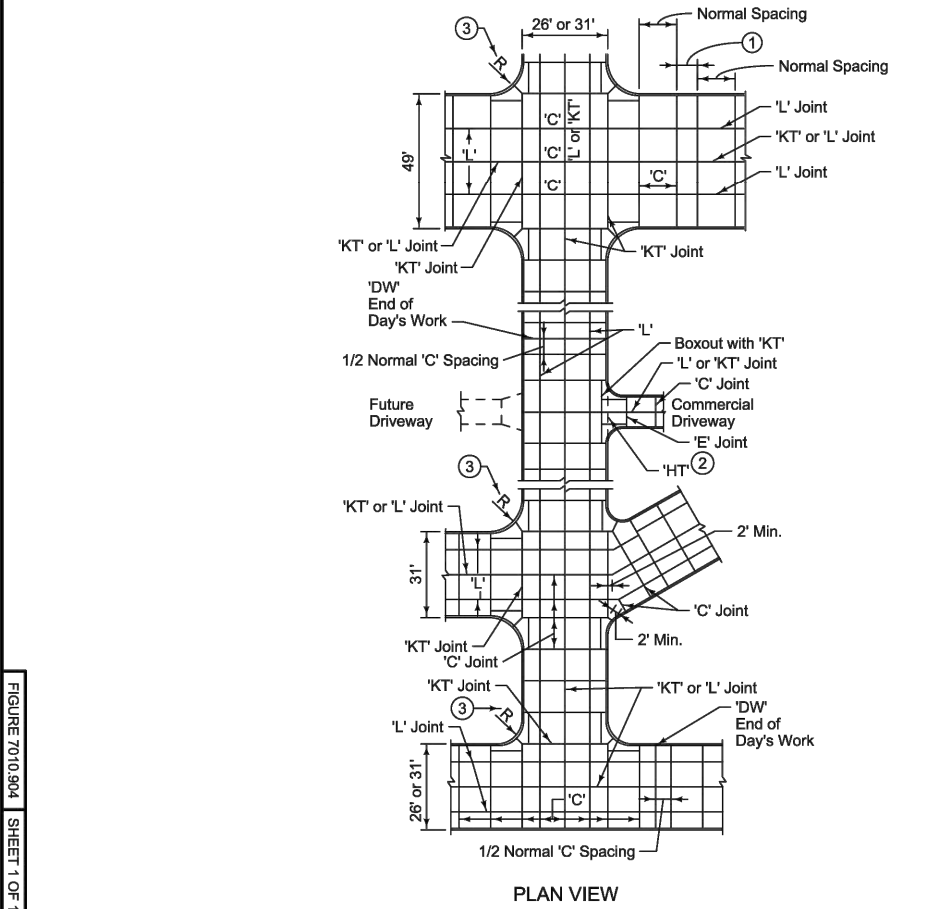
FIGURE 7010.103 STANDARD ROAD PLAN

REVISIONS: Added note 5.

Paul D. Weigand
SUDAS DIRECTOR

Mark Miller
DESIGN METHOD ENGINEER

MANHOLE BOXOUTS IN PCC PAVEMENT



Refer to Figure 7010.901 for maximum transverse joint spacing.

Where new and existing pavements meet, and no existing dowels, tie bars, or keyed joints are present, provide a 'BT', 'RT', or 'RD' joint.

- Shorten jointing pattern on either side of openings to allow joints to intersect round castings and fall at the edges of intake boxouts.
- Where pavement abuts an unimproved street, terminate with a type 'HT' joint.
- When radius exceed 20 feet, add one additional 'C' joint at radius intersections.

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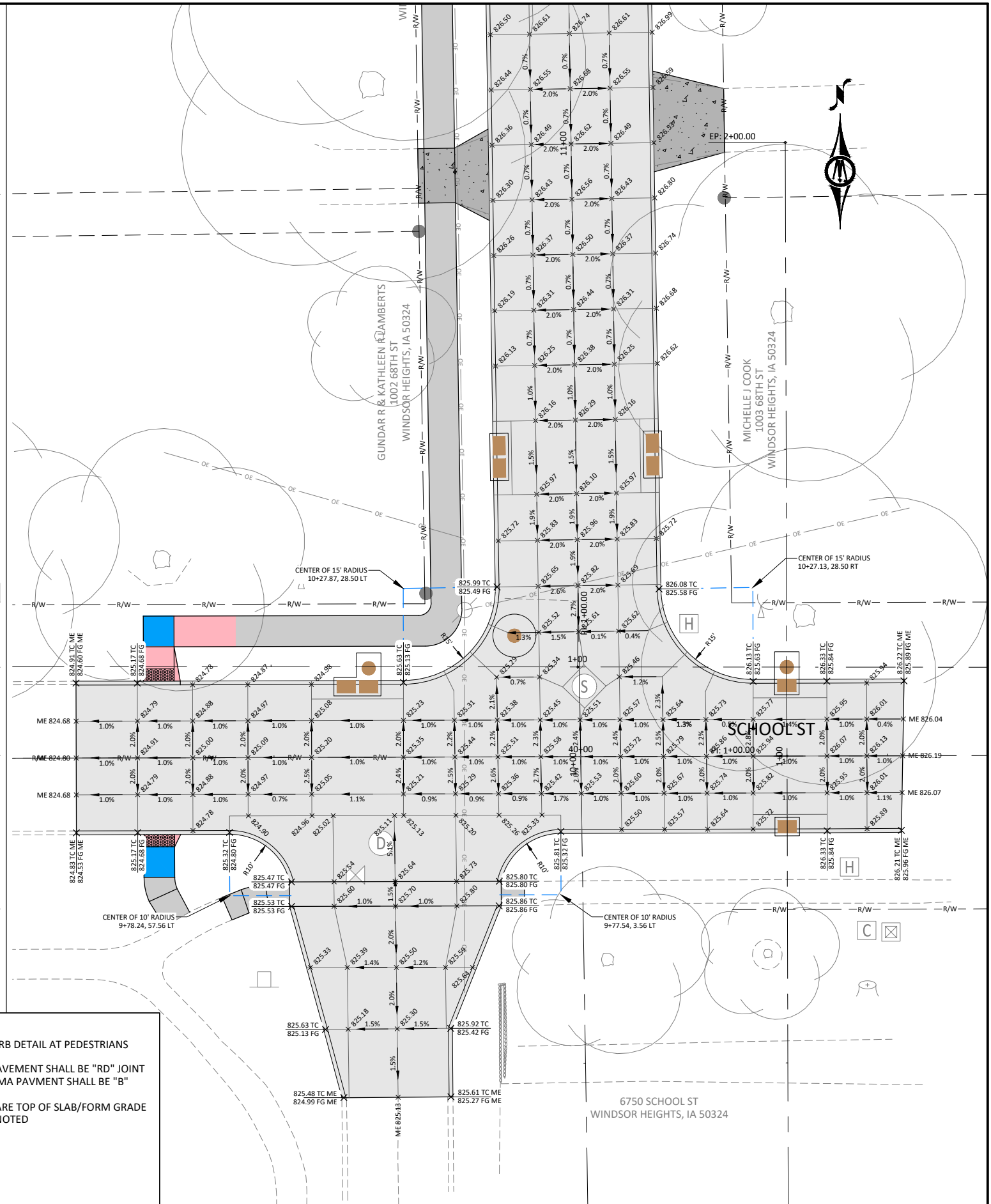
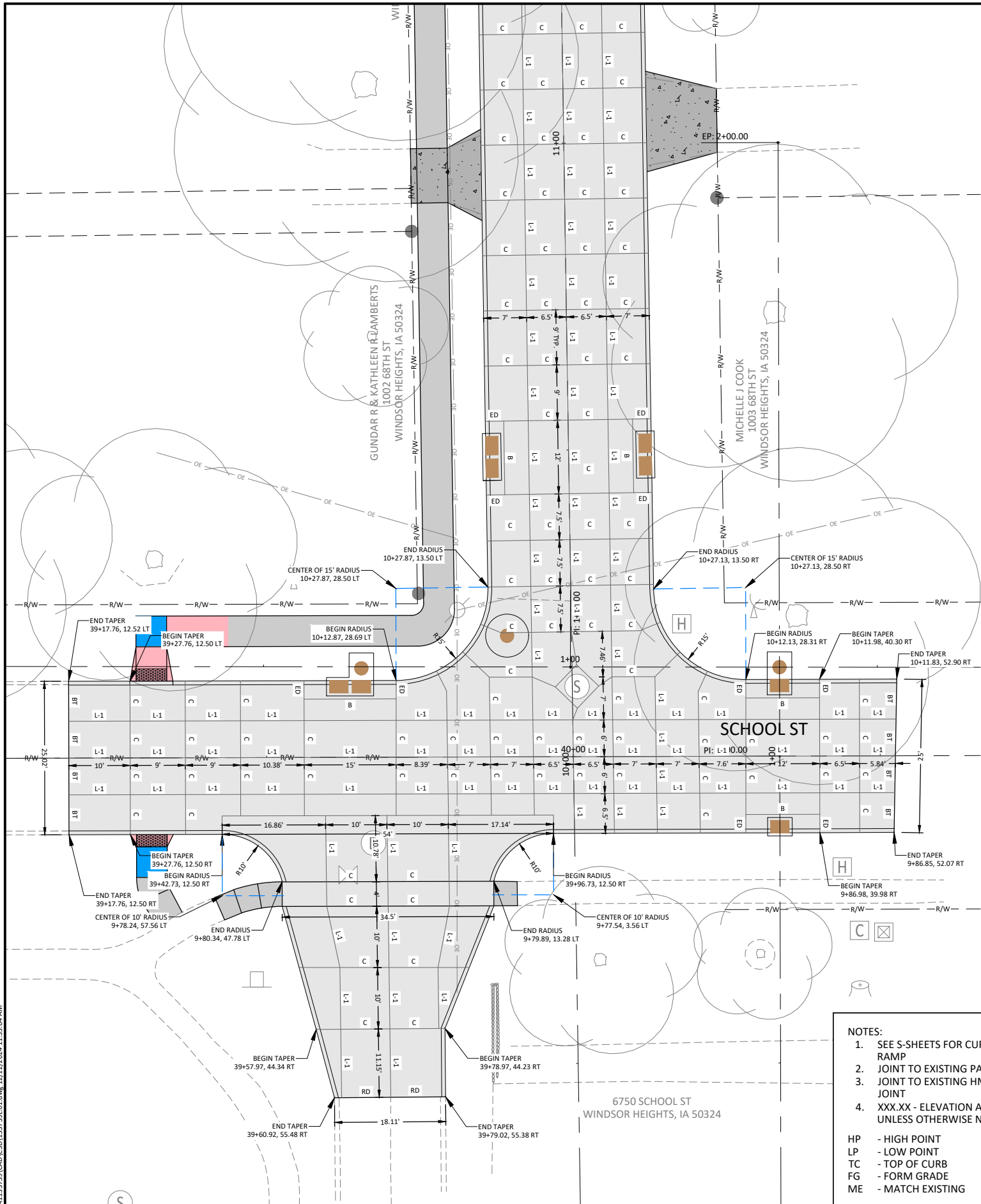
7010.904
SHEET 1 of 1

SUDAS Standard Specifications

TYPICAL JOINTING LAYOUT

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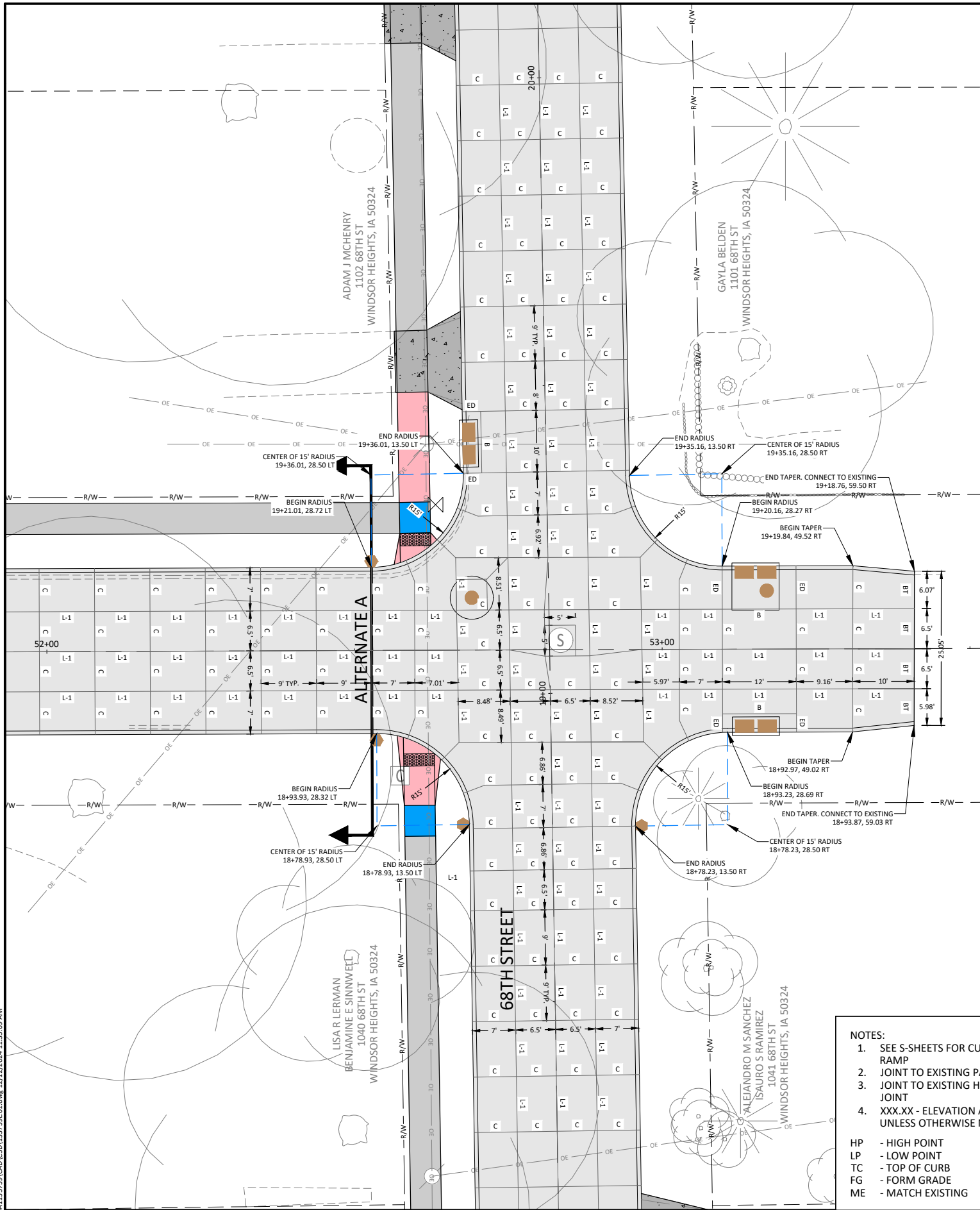


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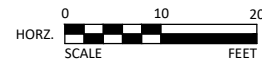
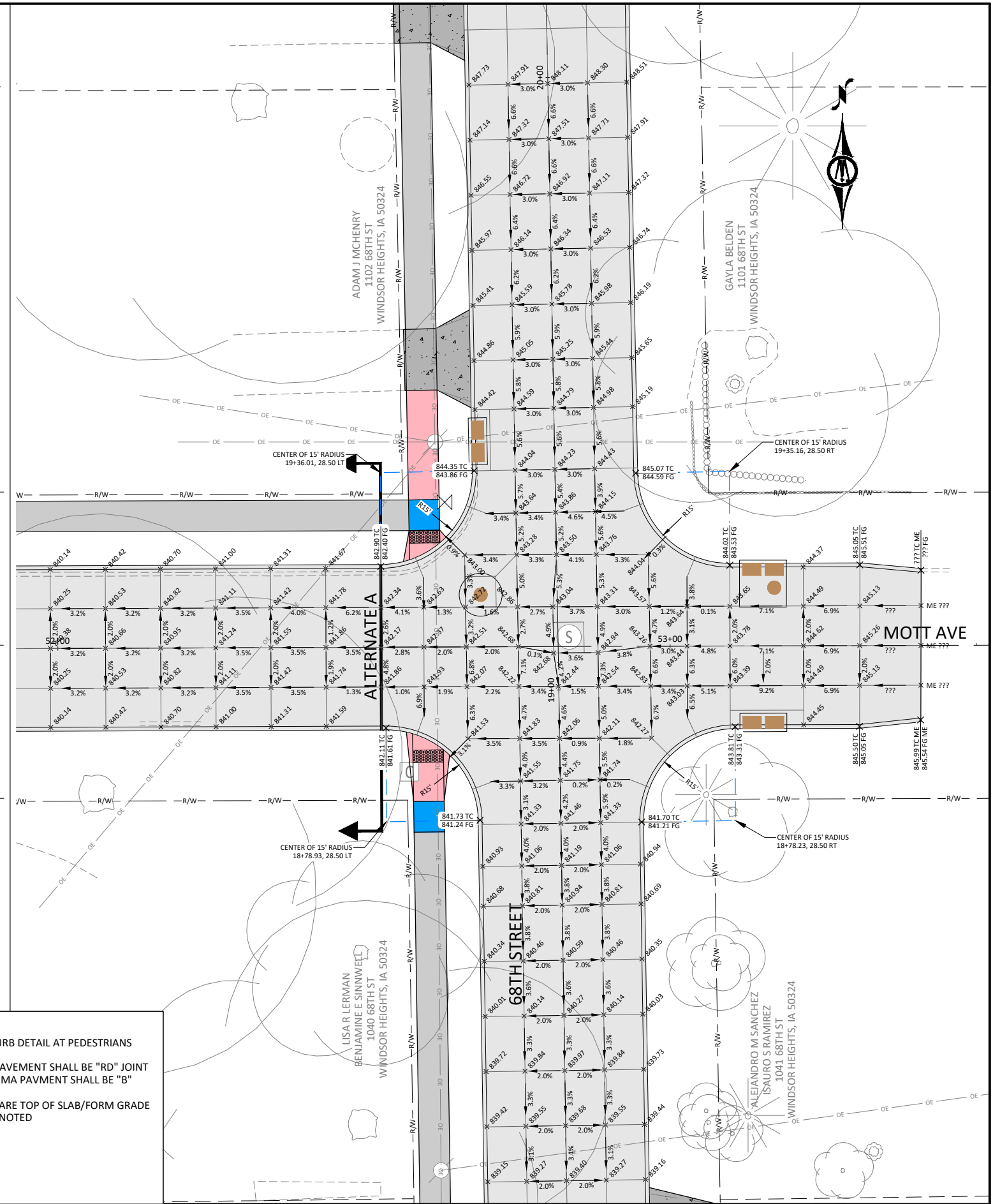
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68TH STREET SOUTH RECONSTRUCTION
INTERSECTION DETAILS - 68TH STREET

SHEET
L.04



- NOTES:
1. SEE S-SHEETS FOR CURB DETAIL AT PEDESTRIANS RAMP
 2. JOINT TO EXISTING PAVEMENT SHALL BE "RD" JOINT
 3. JOINT TO EXISTING HMA PAVMENT SHALL BE "B" JOINT
 4. XXX.XX - ELEVATION ARE TOP OF SLAB/FORM GRADE UNLESS OTHERWISE NOTED
- HP - HIGH POINT
LP - LOW POINT
TC - TOP OF CURB
FG - FORM GRADE
ME - MATCH EXISTING



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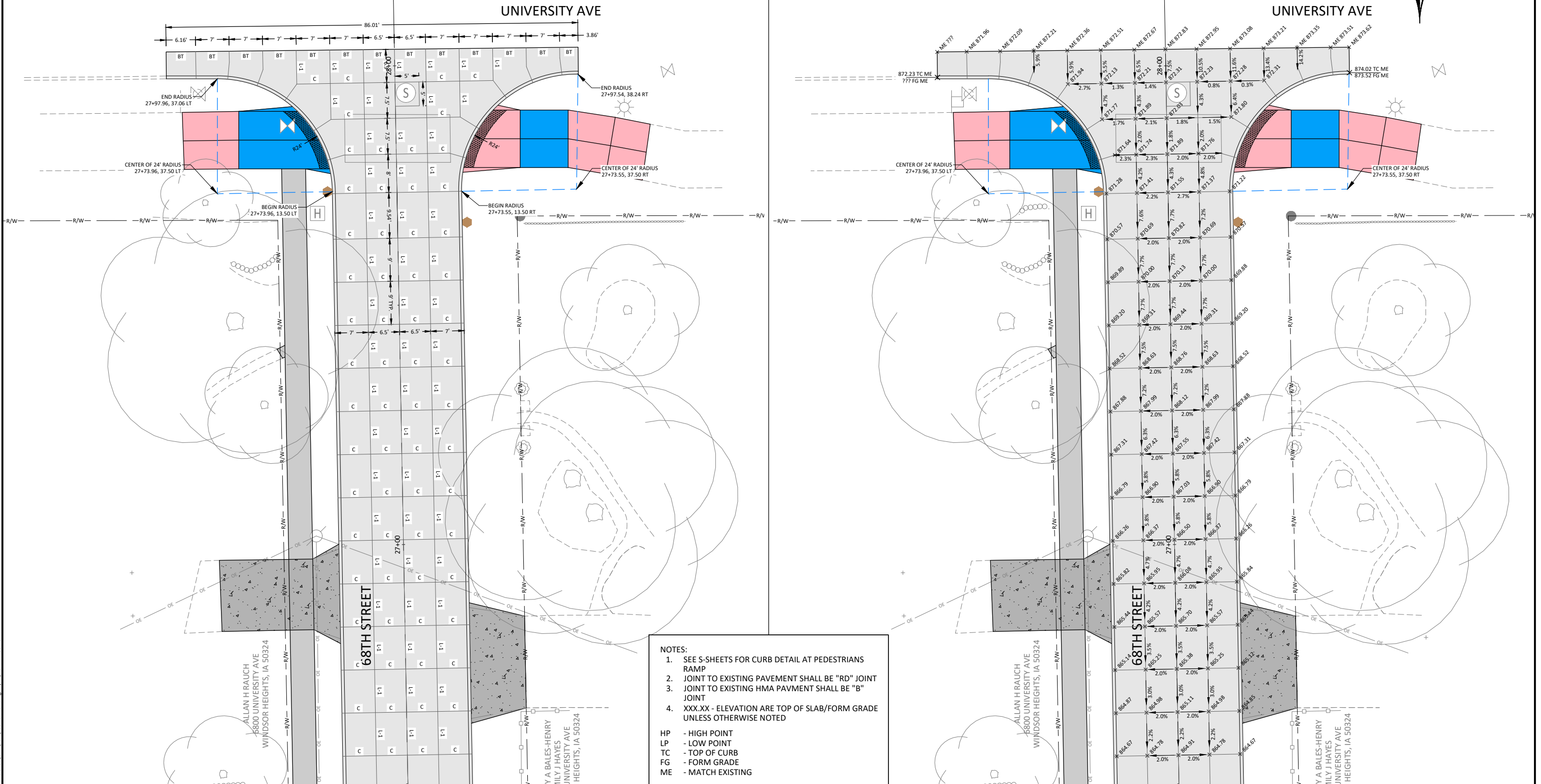


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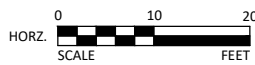
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INTERSECTION DETAILS - 68TH STREET

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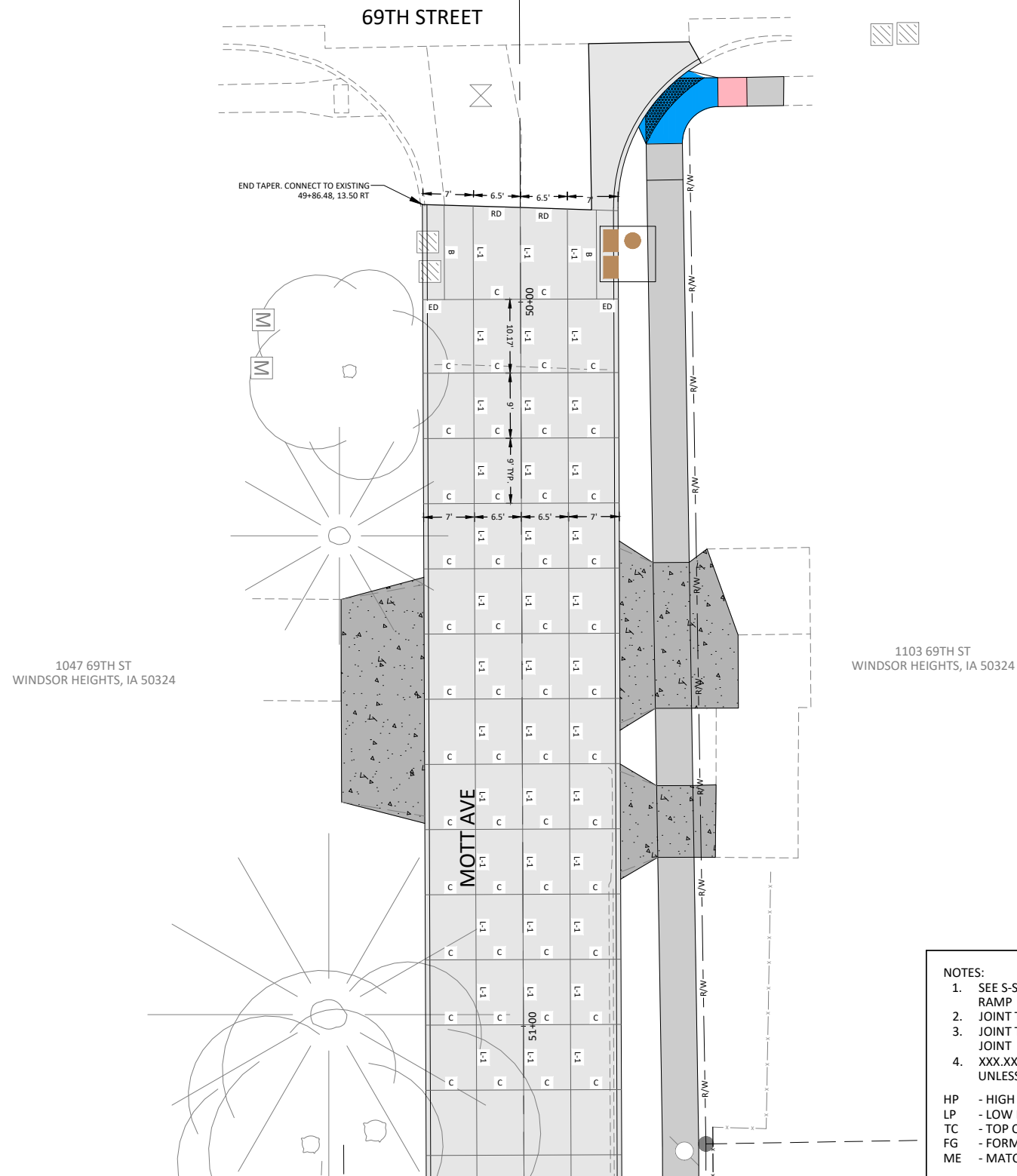


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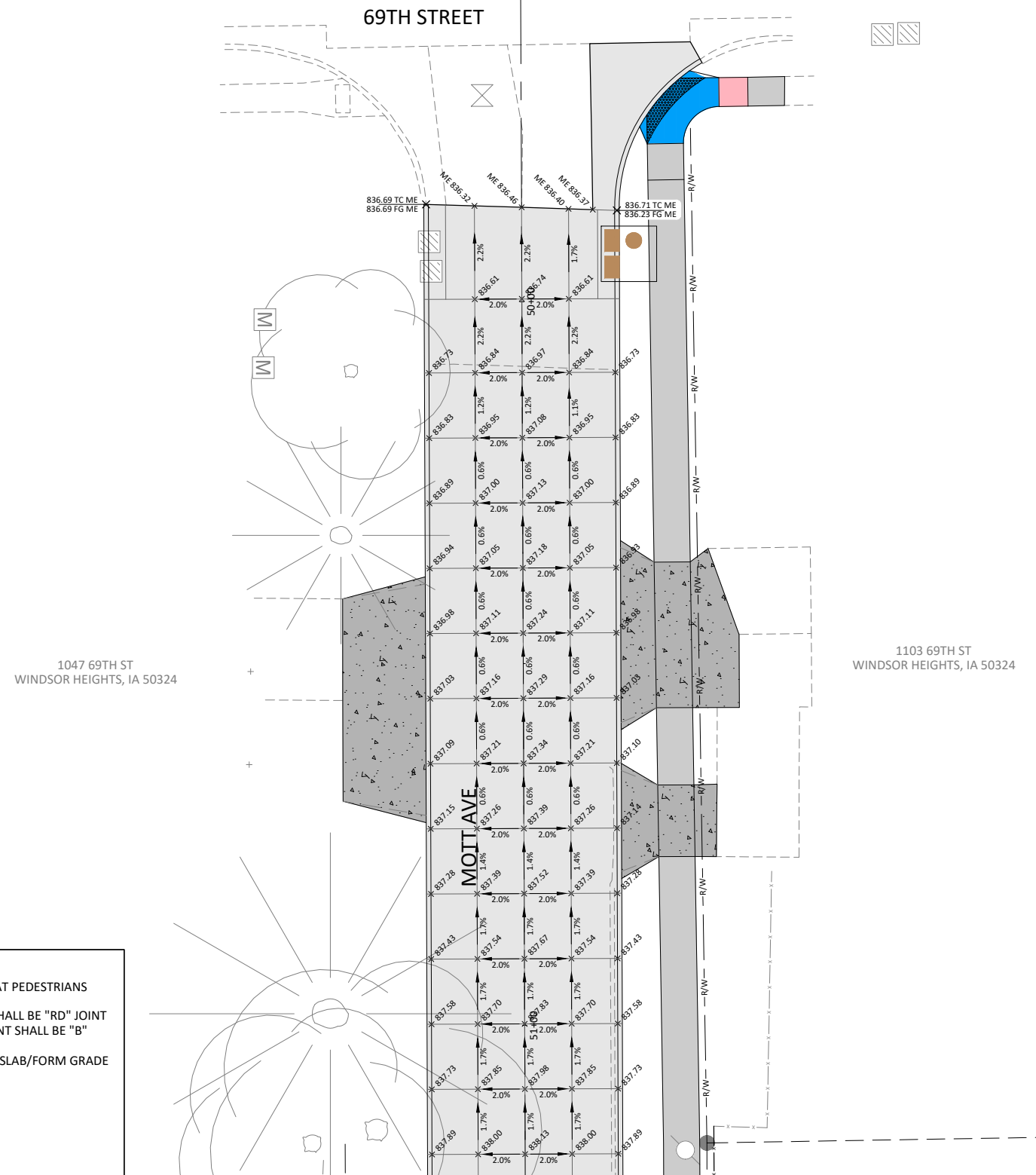
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NOTES:

1. SEE S-SHEETS FOR CURB DETAIL AT PEDESTRIANS RAMP
2. JOINT TO EXISTING PAVEMENT SHALL BE "RD" JOINT
3. JOINT TO EXISTING HMA PAVMENT SHALL BE "B" JOINT
4. XXX.XX - ELEVATION ARE TOP OF SLAB/FORM GRADE UNLESS OTHERWISE NOTED

HP - HIGH POINT
LP - LOW POINT
TC - TOP OF CURB
FG - FORM GRADE
ME - MATCH EXISTING



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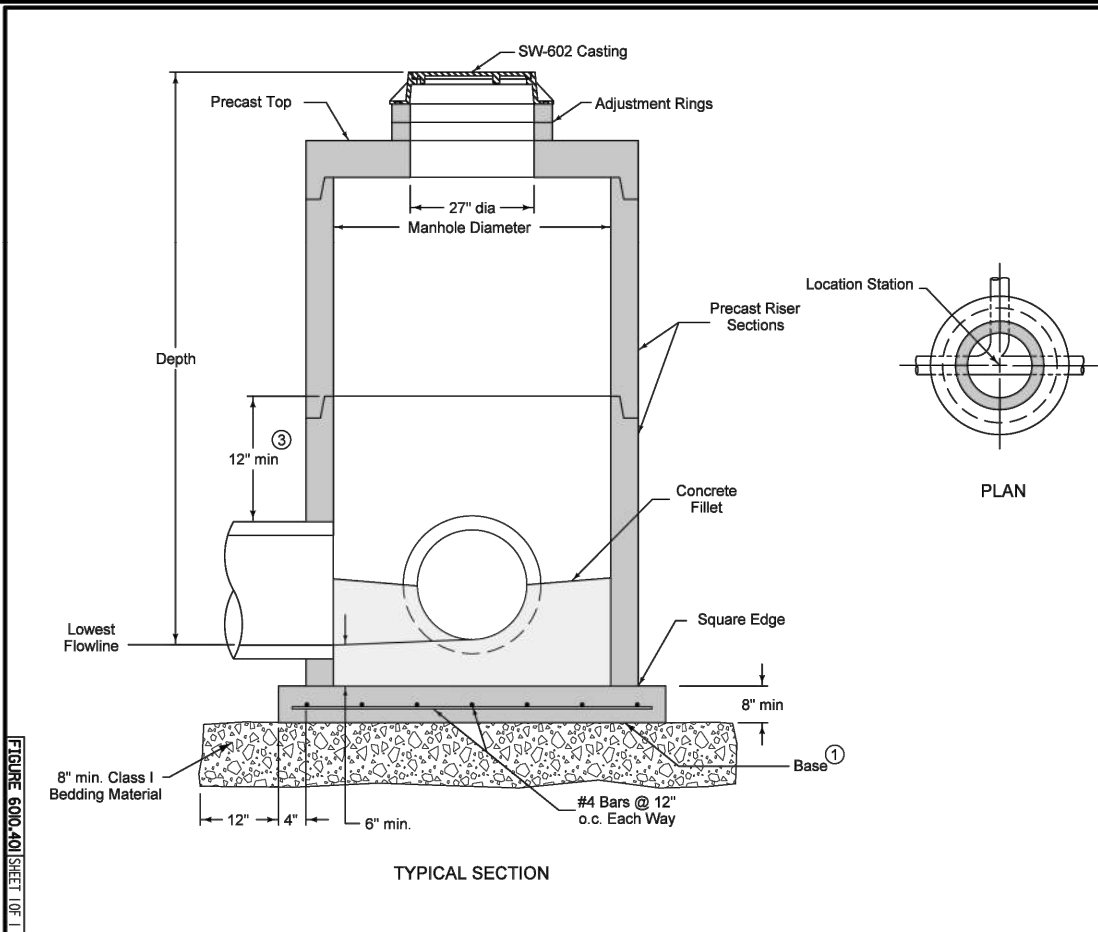
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INT - 3	13+64.87	-13.50' LT	SW-505 N	830.49	826.13, 15" E (PIPE - 6) 826.13, 15" N (PIPE - 4) 827.49, 6" HDPE N (TILE - 4)	826.03, 15" S (PIPE - 3)
INT - 4	16+24.78	-13.50' LT	SW-505 N	834.74	830.24, 15" E (PIPE - 7) 831.74, 6" HDPE N (TILE - 6)	830.14, 15" S (PIPE - 4)
INT - 5	10+49.06	13.50' RT	SW-505 N	825.96	822.95, 6" HDPE N (TILE - 8)	822.23, 15" W (PIPE - 5)
INT - 6	13+64.87	13.50' RT	SW-505 N	830.49	827.49, 6" HDPE N (TILE - 11)	826.63, 15" W (PIPE - 6)
INT - 7	16+24.78	13.50' RT	SW-505 N	834.74	831.74, 6" HDPE N (TILE - 13)	830.74, 15" W (PIPE - 7)
INT - 8	19+24.65	-275.56' LT	SW-516 (Double Type R Grate, 72 in MH LEFT)	836.35	831.56, 44"x27" RCAP E (PIPE - 9) 832.23, 15" RCP-E S (PIPE - (-44))	831.24, 47"x27" RCAP-E W (PIPE - (-41))
INT - 11	19+40.83	-13.50' LT	SW-505 N	844.11	840.05, 15" N (PIPE - 12) 841.11, 6" HDPE N (TILE - 15)	839.95, 15" S (PIPE - 11)
INT - 12	21+57.31	-1.00' LT	SW-501	858.52	854.82, 6" HDPE N (TILE - 17) 854.13, 15" N (PIPE - 13)	854.03, 15" S (PIPE - 12)
INT - 13	23+85.70	-13.50' LT	SW-507 (On Sag)	859.03	855.35, 15" N (PIPE - 14) 855.35, 15" E (PIPE - 15) 856.03, 6" HDPE N (TILE - 19)	855.25, 15" S (PIPE - 13)
INT - 14	26+03.61	-13.50' LT	SW-505	864.03	859.55, 15" E (PIPE - 16) 861.03, 6" HDPE N (TILE - 21)	859.45, 15" S (PIPE - 14)
INT - 15	23+85.68	13.50' RT	SW-507 (On Sag)	859.16	856.19, 8" PP E (PIPE - 19) 856.64, 6" HDPE N (TILE - 27)	855.89, 15" W (PIPE - 15)
INT - 16	26+03.61	13.46' RT	SW-505	864.03	861.03, 6" HDPE N (TILE - 29)	860.05, 15" W (PIPE - 16)
INT - 17	19+18.08	33.65' RT	SW-516 (Double Type R Grate, 72 in MH Right)	844.43	839.38, 15" S (PIPE - 18) 838.60, 36" RCP E (PIPE - 24) 840.55, 6" HDPE W (TILE - 23)	838.50, 36 W (PIPE - 17)
INT - 18	18+93.17	33.31' RT	SW-505 N	843.90		839.79, 15" N (PIPE - 18)
INT - 19	23+84.88	39.99' RT	18" CATCH BASIN	858.84		856.42, 8" PP W (PIPE - 19)
INT - 20	23+86.28	-45.34' LT	18" CATCH BASIN	855.67		854.00, 12" RCP-E W (PIPE - (-78))
INT - 21	10+12.40	-25.54' LT	SW-506 (Double Type R Grate, 72in MH Right)	825.04	819.96, 12" E (PIPE - 22)	819.86, 12" S (PIPE - 21)
INT - 22	10+12.57	44.45' RT	SW-503 (36inX72in)	825.22	821.64, 8" HDPE-E NE (EX PIPE - (14)) 821.36, 12" S (PIPE - 23)	821.26, 12" W (PIPE - 22)
INT - 23	9+87.56	44.51' RT	SW-501	825.76		821.86, 12" N (PIPE - 23)
MH - 1	10+19.71	0.05' RT	SW-401 (72in)	N/A	821.40, 37"x23" RCAP E (PIPE - 8) 821.32, 15" N (PIPE - 2)	821.20, 37"x23" RCAP W (PIPE - 1)
MH - 9	19+17.36	-144.07' LT	SW-401 (72in)	N/A	832.33, 36" RCP E (PIPE - 10) 833.58, 6" HDPE NE (TILE - 33)	832.22, 44"x27" RCAP W (PIPE - 9)
MH - 10	19+15.78	-12.50' LT	SW-401 (72in)	N/A	838.44, 15" N (PIPE - 11) 837.54, 36 E (PIPE - 17)	836.65, 36" RCP W (PIPE - 10)

STORM SEWER PIPES							
FROM STRUCTURE	TO STRUCTURE	PIPE ID	PIPE DIA	LENGTH	PIPE GRADE	START INV	END INV
MH - 1	EX PIPE - 1	PIPE - 1	37"x23" RCAP	15 LF	0.50%	821.20	821.13
INT - 2	MH - 1	PIPE - 2	15"	29 LF	1.30%	821.63	821.32
INT - 3	INT - 2	PIPE - 3	15"	316 LF	1.36%	826.03	821.73
INT - 4	INT - 3	PIPE - 4	15"	260 LF	1.56%	830.14	826.13
INT - 5	INT - 2	PIPE - 5	15"	27 LF	2.00%	822.23	821.73
INT - 6	INT - 3	PIPE - 6	15"	27 LF	2.00%	826.63	826.13
INT - 7	INT - 4	PIPE - 7	15"	27 LF	2.00%	830.74	830.24
EX PIPE - 2	MH - 1	PIPE - 8	37"x23" RCAP	35 LF	1.20%	821.82	821.40
MH - 9	INT - 8	PIPE - 9	44"x27" RCAP	132 LF	0.50%	832.22	831.56
MH - 10	MH - 9	PIPE - 10	36" RCP	144 LF	3.00%	836.65	832.33
INT - 11	MH - 10	PIPE - 11	15"	25 LF	6.06%	839.95	838.44
INT - 12	INT - 11	PIPE - 12	15"	217 LF	6.50%	854.03	840.05
INT - 13	INT - 12	PIPE - 13	15"	228 LF	0.50%	855.25	854.13
INT - 14	INT - 13	PIPE - 14	15"	218 LF	1.90%	859.45	855.35
INT - 15	INT - 13	PIPE - 15	15"	27 LF	2.00%	855.89	855.35
INT - 16	INT - 14	PIPE - 16	15"	27 LF	2.00%	860.05	859.55
INT - 17	MH - 10	PIPE - 17	36	46 LF	2.00%	838.50	837.54
INT - 18	INT - 17	PIPE - 18	15"	25 LF	2.00%	839.79	839.38
INT - 19	INT - 15	PIPE - 19	8" PP	12 LF	2.00%	856.42	856.19
INT - 21	EX MH - 1	PIPE - 21	12"	27 LF	1.41%	819.86	819.51
INT - 22	INT - 21	PIPE - 22	12"	70 LF	2.00%	821.26	819.96
INT - 23	INT - 22	PIPE - 23	12"	25 LF	2.00%	821.86	821.36
PIPE - 25	INT - 17	PIPE - 24	36" RCP	12 LF	2.00%	838.77	838.60

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CLEANOUT STRUCTURES						
STRUCTURE	STATION	OFFSET	TYPE	FG/RIM ELEV	INLET ELEV	OUTLET ELEV
CO - 2	13+60.05	-14.50' LT	6 Cleanout	830.97		827.59, 6" HDPE S (TILE - 3)
CO - 1	12+01.95	-2.00' LT	6 Cleanout	827.85	825.22, 6" HDPE N (TILE - 3)	825.22, 6" HDPE S (TILE - 2)
CO - 3	16+19.95	-14.50' LT	6 Cleanout	835.09		831.96, 6" HDPE S (TILE - 5)
CO - 4	18+78.93	-14.50' LT	6 Cleanout	841.82		838.10, 6" HDPE S (TILE - 7)
CO - 5	11+94.98	27.00' RT	6 Cleanout	827.79	824.77, 6" HDPE N (TILE - 10)	824.77, 6" HDPE S (TILE - 9)
CO - 6	13+60.03	14.50' RT	6 Cleanout	830.92		826.83, 6" HDPE S (TILE - 10)
CO - 7	16+19.94	14.50' RT	6 Cleanout	835.25		831.96, 6" HDPE S (TILE - 12)
CO - 8	18+78.23	14.50' RT	6 Cleanout	841.86		838.08, 6" HDPE S (TILE - 14)
CO - 9	21+54.43	-14.50' LT	6 Cleanout	858.88		856.39, 6" HDPE S (TILE - 16)
CO - 10	23+81.20	-16.97' LT	6 Cleanout	859.14		857.06, 6" HDPE S (TILE - 18)
CO - 11	25+97.78	-14.57' LT	6 Cleanout	864.39		861.33, 6" HDPE S (TILE - 20)
CO - 12	27+73.98	-14.50' LT	6 Cleanout	871.76		865.29, 6" HDPE S (TILE - 22)
CO - 13	21+54.43	14.50' RT	6 Cleanout	859.98	856.54, 6" HDPE N (TILE - 26)	856.54, 6" HDPE S (TILE - 25)
CO - 14	23+81.16	14.50' RT	6 Cleanout	859.69		857.67, 6" HDPE S (TILE - 26)
CO - 15	25+98.61	14.50' RT	6 Cleanout	864.48		860.86, 6" HDPE S (TILE - 28)

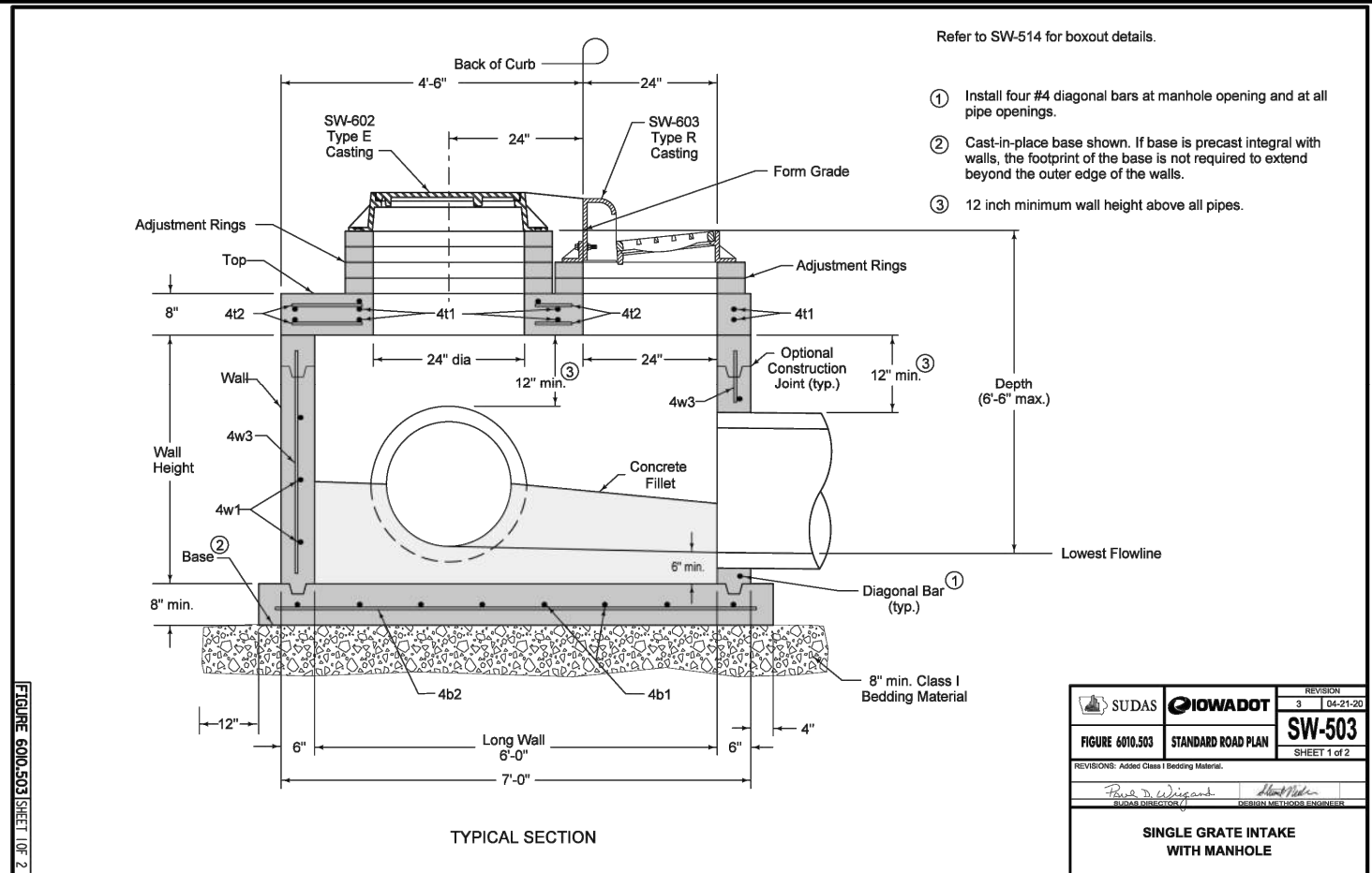
SUBDRAIN PIPES							
FROM STRUCTURE	TO STRUCTURE	PIPE ID	PIPE DIA	LENGTH	PIPE GRADE	START INV	END INV
TILE - 1	INT - 2	TILE - 1	6" HDPE	5 LF	1.00%	823.00	822.95
CO - 1	TILE - 1	TILE - 2	6" HDPE	148 LF	1.50%	825.22	823.00
CO - 2	CO - 1	TILE - 3	6" HDPE	158 LF	1.50%	827.59	825.22
TILE - 5	INT - 3	TILE - 4	6" HDPE	5 LF	1.75%	827.58	827.49
CO - 3	TILE - 5	TILE - 5	6" HDPE	250 LF	1.75%	831.96	827.58
TILE - 7	INT - 4	TILE - 6	6" HDPE	5 LF	2.50%	831.87	831.74
CO - 4	TILE - 7	TILE - 7	6" HDPE	249 LF	2.50%	838.10	831.87
TILE - 9	INT - 5	TILE - 8	6" HDPE	5 LF	1.25%	823.01	822.95
CO - 5	TILE - 9	TILE - 9	6" HDPE	141 LF	1.25%	824.77	823.01
CO - 6	CO - 5	TILE - 10	6" HDPE	165 LF	1.25%	826.83	824.77
TILE - 12	INT - 6	TILE - 11	6" HDPE	5 LF	1.75%	827.58	827.49
CO - 7	TILE - 12	TILE - 12	6" HDPE	250 LF	1.75%	831.96	827.58
TILE - 14	INT - 7	TILE - 13	6" HDPE	5 LF	2.50%	831.87	831.74
CO - 8	TILE - 14	TILE - 14	6" HDPE	248 LF	2.50%	838.08	831.87
TILE - 16	INT - 11	TILE - 15	6" HDPE	5 LF	7.15%	841.47	841.11
CO - 9	TILE - 16	TILE - 16	6" HDPE	209 LF	7.15%	856.39	841.47
CO - 10	TILE - 18	TILE - 18	6" HDPE	221 LF	1.00%	857.06	854.85
TILE -20	INT - 13	TILE - 19	6" HDPE	7 LF	2.50%	856.17	856.03
CO - 11	TILE -20	TILE - 20	6" HDPE	207 LF	2.50%	861.33	856.17
TILE - 22	INT - 14	TILE - 21	6" HDPE	5 LF	2.50%	861.15	861.03
CO - 12	TILE - 22	TILE - 22	6" HDPE	166 LF	2.50%	865.29	861.15
TILE - 24	INT - 17	TILE - 23	6" HDPE	6 LF	2.00%	840.66	840.55
TILE - 25	TILE - 24	TILE - 24	6" HDPE	22 LF	2.00%	841.10	840.66
CO - 14	CO - 13	TILE - 26	6" HDPE	227 LF	0.50%	857.67	856.54
TILE - 28	INT - 15	TILE - 27	6" HDPE	5 LF	2.00%	856.70	856.64
CO - 15	TILE - 28	TILE - 28	6" HDPE	208 LF	2.00%	860.86	856.70
TILE - 30	INT - 16	TILE - 29	6" HDPE	5 LF	2.50%	861.15	861.03
CO - 16	TILE - 30	TILE - 30	6" HDPE	159 LF	2.50%	865.09	861.13



- If manhole depth exceeds 20 feet, install steps.
- 1 Cast-in-place base shown. If base is precast integral with bottom riser, the footprint of the base is not required to extend beyond the outer edge of the riser.
 - 2 For additional configurations, maintain a minimum of 12 inches of concrete between vertical edges of pipe openings.
 - 3 12 inch minimum riser height above all pipe openings.

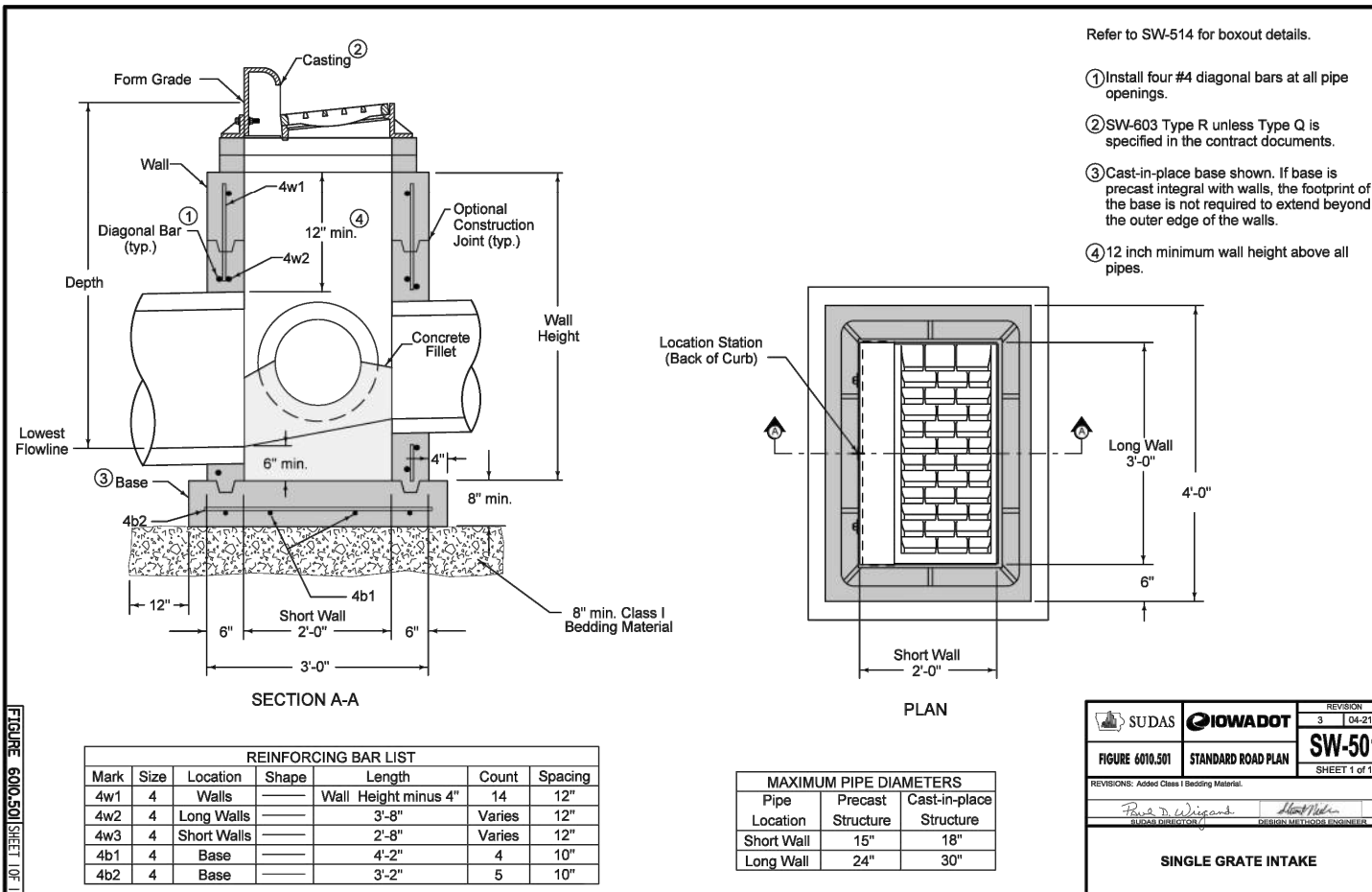
Manhole Diameter (inches)	Maximum Pipe Diameter (inches) for 2 Pipes	
	At 180° Separation	At 90° Separation
48	24	18
60	36	24
72	42	30
84	48	36
96	60	42

SUDAS IOWADOT
FIGURE 600.401 STANDARD ROAD PLAN
SW-401
SHEET 1 of 1
REVISIONS: Added manhole depth note.
Paul D. Weigand
SUDAS DIRECTOR / DESIGN METHODS ENGINEER
CIRCULAR STORM SEWER MANHOLE



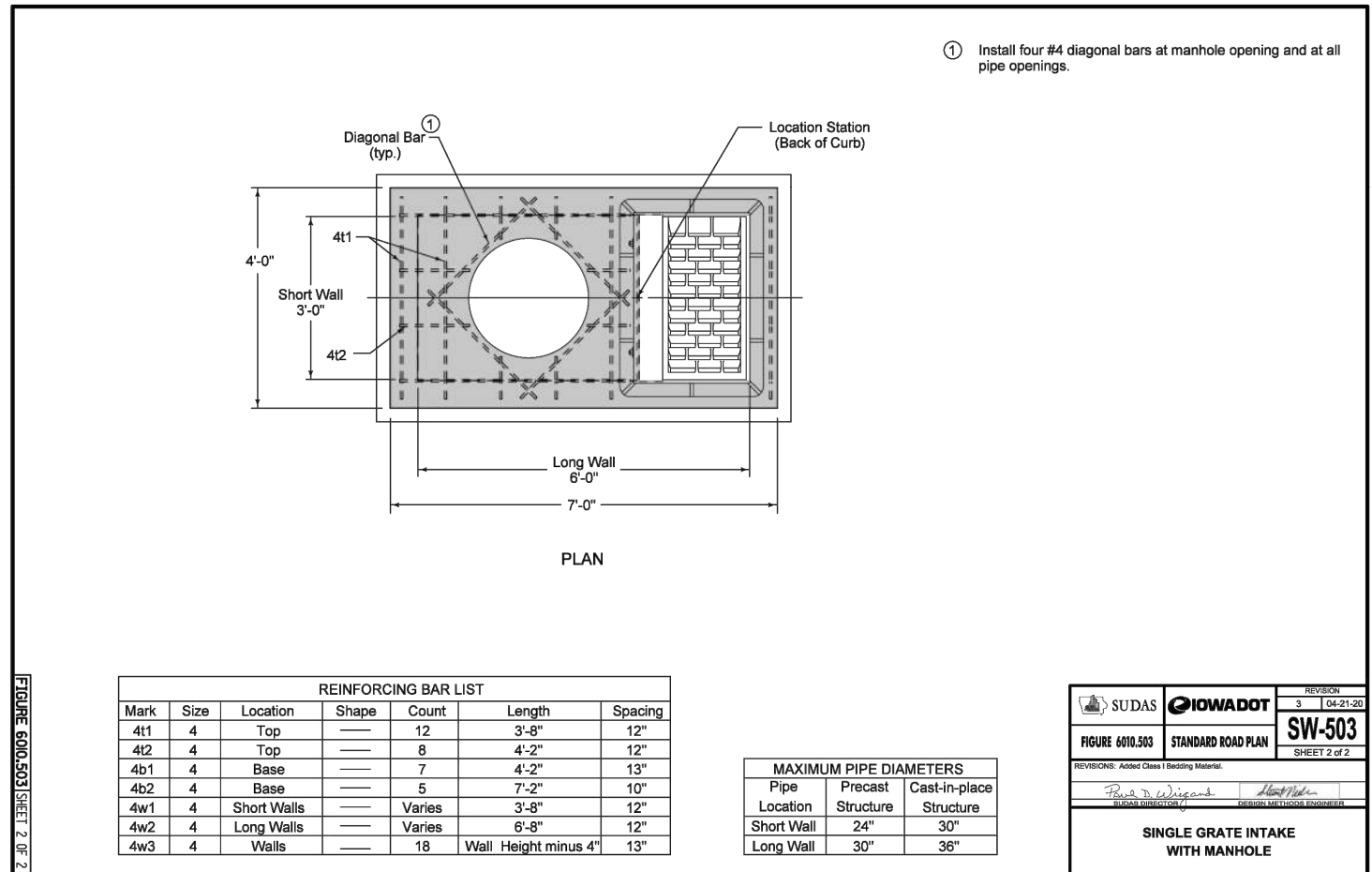
- Refer to SW-514 for boxout details.
- 1 Install four #4 diagonal bars at manhole opening and at all pipe openings.
 - 2 Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
 - 3 12 inch minimum wall height above all pipes.

SUDAS IOWADOT
FIGURE 600.503 STANDARD ROAD PLAN
SW-503
SHEET 1 of 2
REVISIONS: Added Class I Bedding Material.
Paul D. Weigand
SUDAS DIRECTOR / DESIGN METHODS ENGINEER
SINGLE GRATE INTAKE WITH MANHOLE



- Refer to SW-514 for boxout details.
- 1 Install four #4 diagonal bars at all pipe openings.
 - 2 SW-603 Type R unless Type Q is specified in the contract documents.
 - 3 Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
 - 4 12 inch minimum wall height above all pipes.

SUDAS IOWADOT
FIGURE 600.501 STANDARD ROAD PLAN
SW-501
SHEET 1 of 1
REVISIONS: Added Class I Bedding Material.
Paul D. Weigand
SUDAS DIRECTOR / DESIGN METHODS ENGINEER
SINGLE GRATE INTAKE



- Refer to SW-514 for boxout details.
- 1 Install four #4 diagonal bars at manhole opening and at all pipe openings.

REINFORCING BAR LIST						
Mark	Size	Location	Shape	Count	Length	Spacing
4t1	4	Top	—	12	3'-8"	12"
4t2	4	Top	—	8	4'-2"	12"
4b1	4	Base	—	7	4'-2"	13"
4b2	4	Base	—	5	7'-2"	10"
4w1	4	Short Walls	—	Varies	3'-8"	12"
4w2	4	Long Walls	—	Varies	6'-8"	12"
4w3	4	Walls	—	18	Wall Height minus 4"	13"

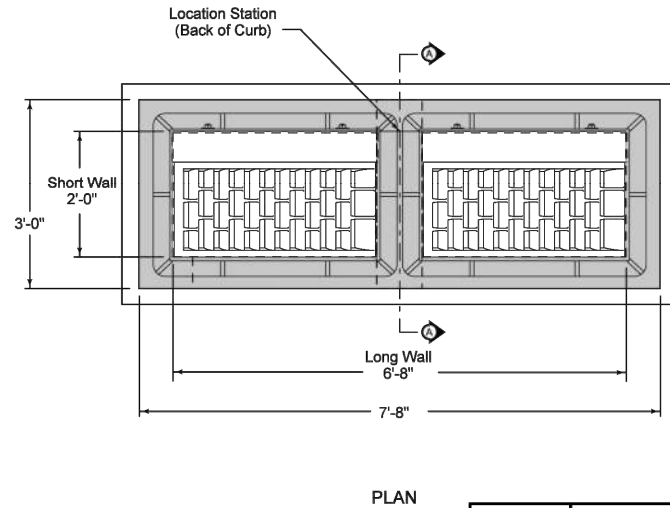
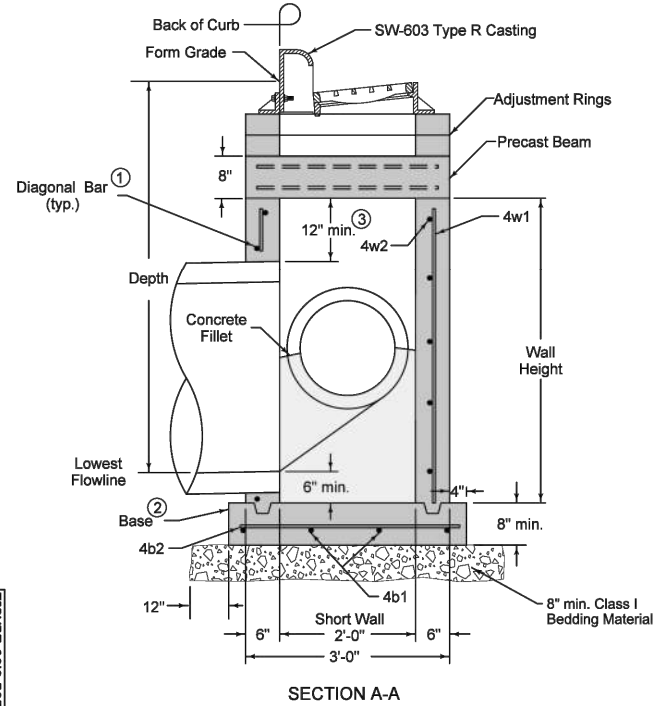
MAXIMUM PIPE DIAMETERS		
Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	24"	30"
Long Wall	30"	36"

SUDAS IOWADOT
FIGURE 600.503 STANDARD ROAD PLAN
SW-503
SHEET 2 of 2
REVISIONS: Added Class I Bedding Material.
Paul D. Weigand
SUDAS DIRECTOR / DESIGN METHODS ENGINEER
SINGLE GRATE INTAKE WITH MANHOLE

DESIGNED	REV	DESCRIPTION	DATE
FAM			
DRAWN	PL		
CHECKED	JLE		
CLIENT PROJ. NO.	0A1.133739		

Refer to SW-514 for boxout details.

- 1 Install four #4 diagonal bars at all pipe openings.
- 2 Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
- 3 12 inch minimum wall height above all pipes.



PLAN

FIGURE 600.505	STANDARD ROAD PLAN	REVISION
FIGURE 600.505	STANDARD ROAD PLAN	SW-505
REVISIONS: Added Class I Bedding Material.		SHEET 1 of 2
Paul D. Wiegand	DESIGN METHODS ENGINEER	
DOUBLE GRATE INTAKE		

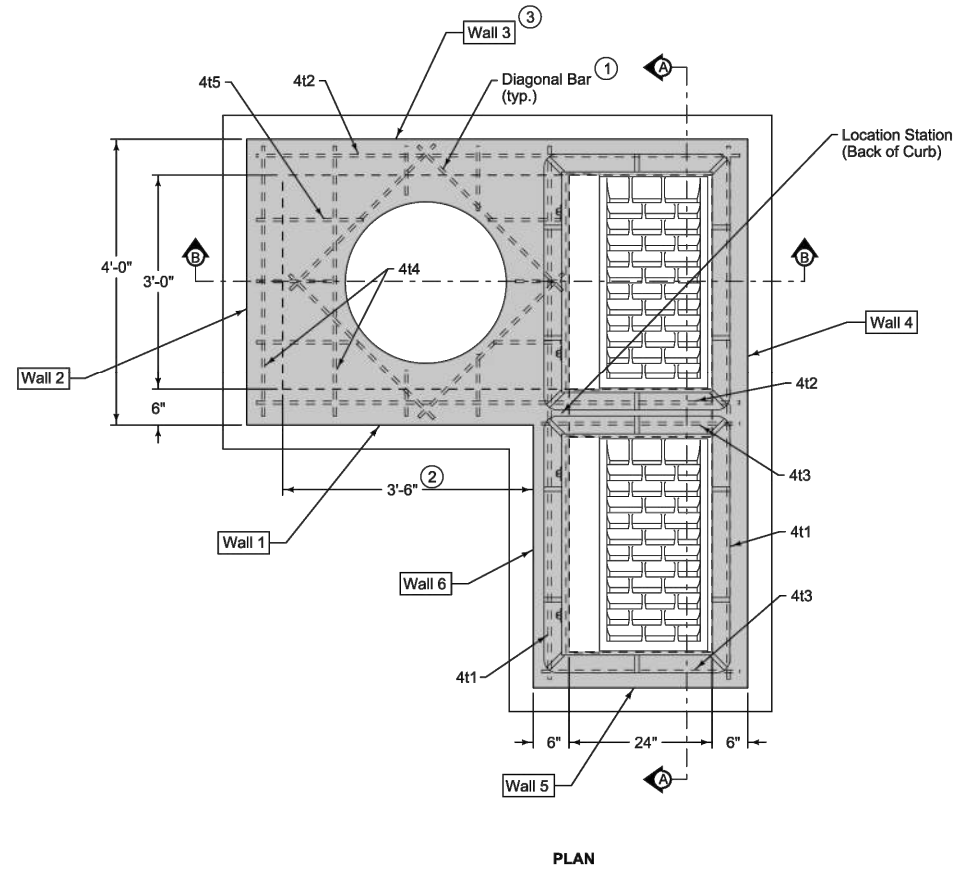
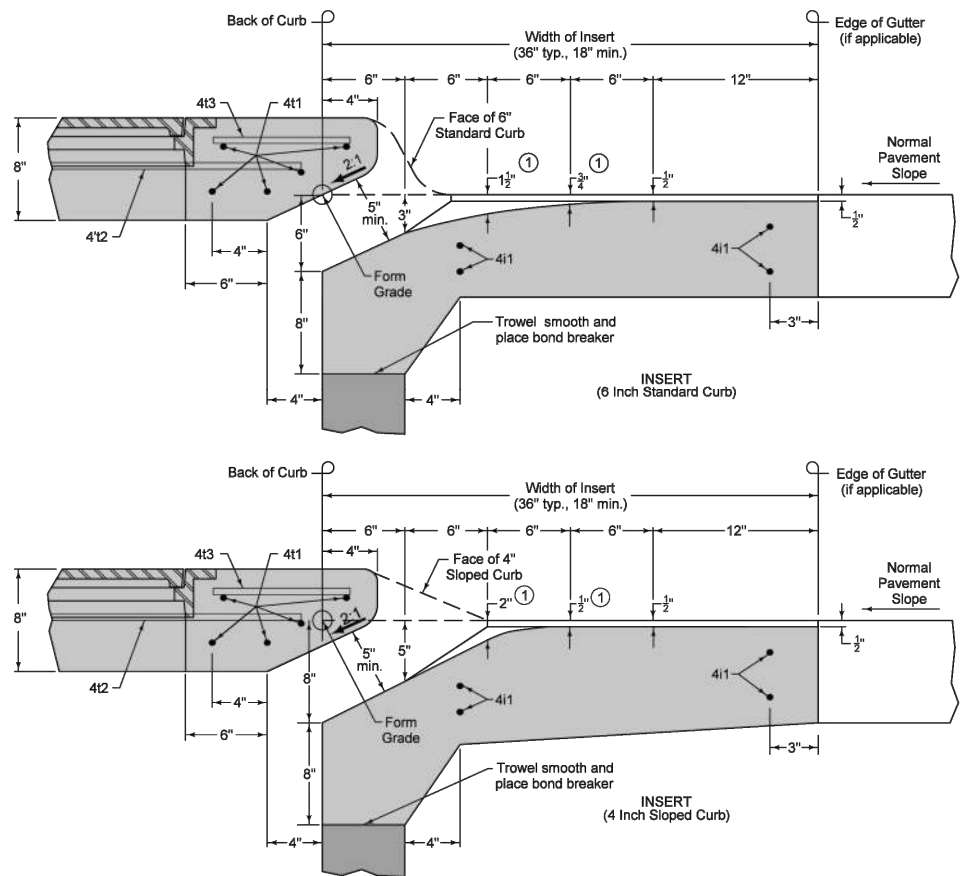


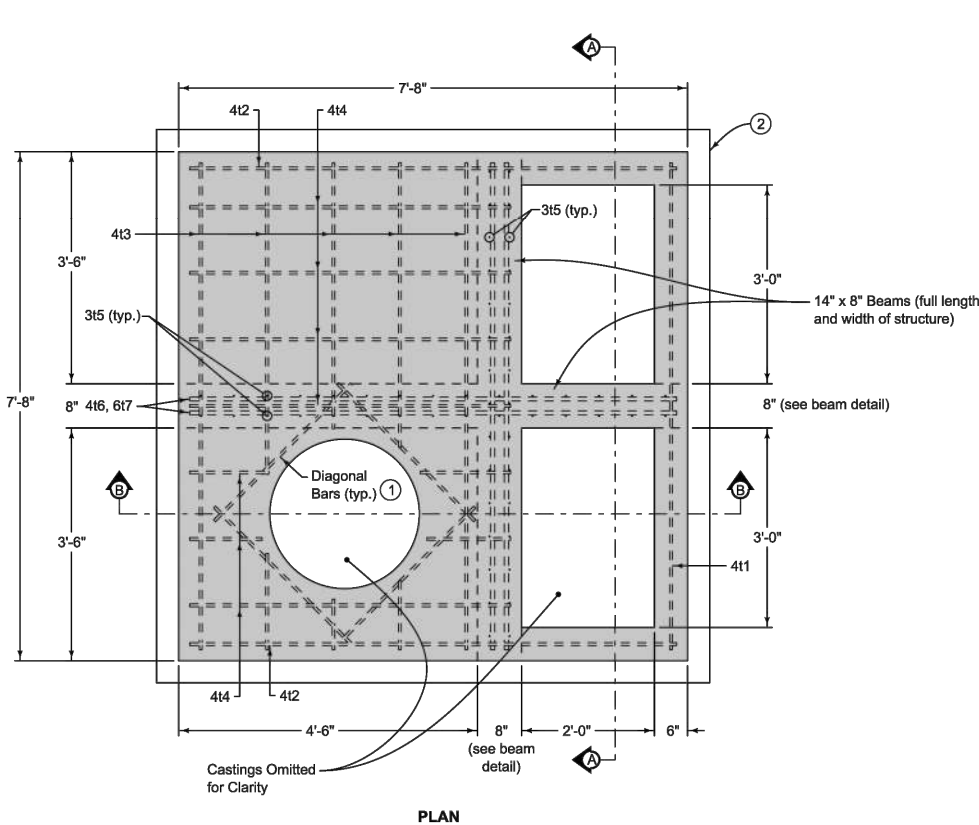
FIGURE 600.507 SHEET 1 OF 2



① Insert shaping may be modified for insert widths less than 36 inches. For an 18 inch insert, reduce dimensions indicated by 1/2 inch.

SUDAS	IOWADOT	REVISION 4 04-21-20
FIGURE 600.507	STANDARD ROAD PLAN	SW-507
SHEET 1 of 2		
REVISIONS: Added Class I Bedding Material and changed maximum box out length to 17'.		
Paul D. Wiegand, Design Methods Engineer		
SINGLE OPEN-THROAT CURB INTAKE, SMALL BOX		

FIGURE 600.516 SHEET 1 OF 3

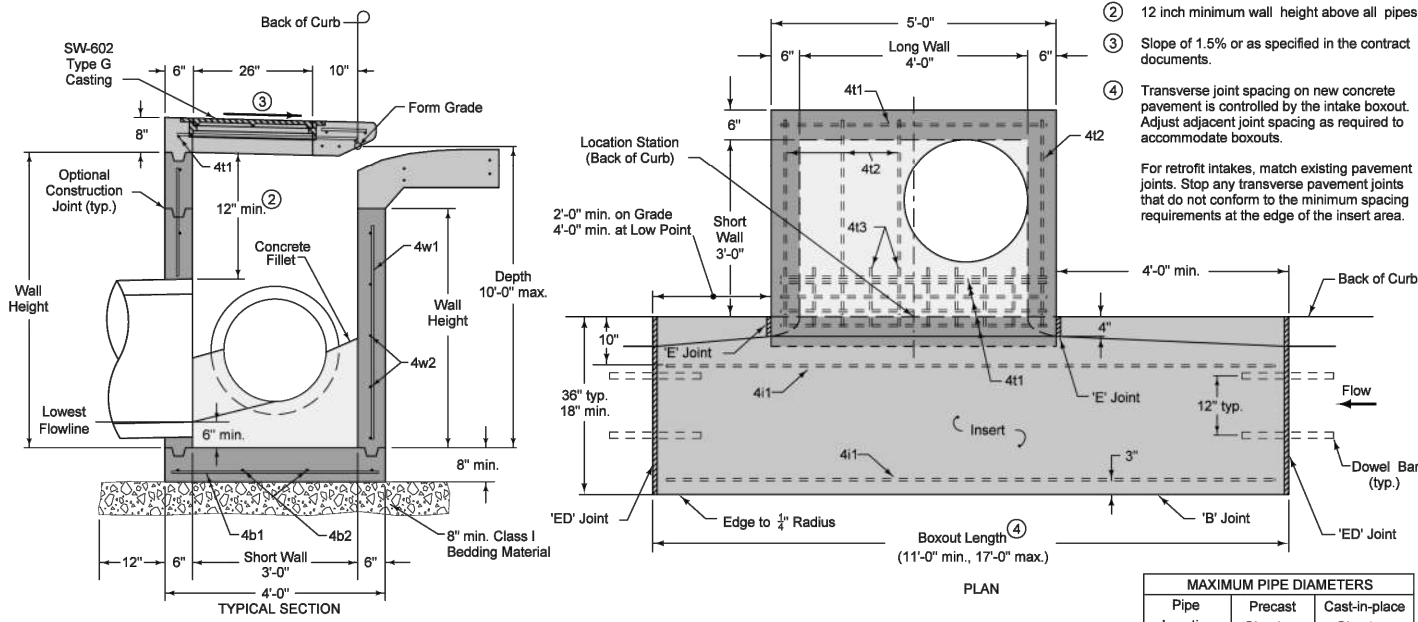


- Maximum pipe diameters are set based on maximum structure depth of 6 feet-6 inches.
- Refer to SW-514 for boxout details.
- ① Install four #4 diagonal bars at manhole opening and at all pipe openings.
 - ② Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.

MAXIMUM PIPE DIAMETERS	
Wall	Max. Dia.
Front/Back	36"
Sides	42"

SUDAS	IOWADOT	REVISION New 4-18-24
FIGURE 600.516	STANDARD ROAD PLAN	SW-516
SHEET 1 of 3		
REVISIONS: New		
Paul D. Wiegand, Design Methods Engineer		
LARGE WELL DOUBLE GRATE INTAKE WITH MANHOLE		

FIGURE 600.507 SHEET 2 OF 2

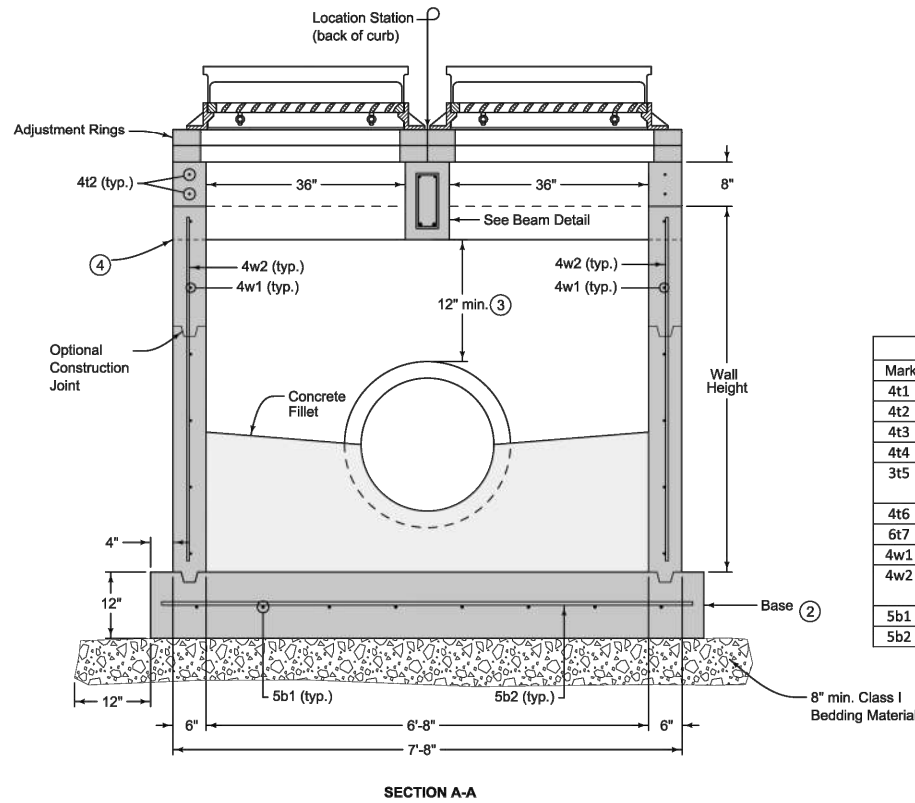


- ② 12 inch minimum wall height above all pipes.
 - ③ Slope of 1.5% or as specified in the contract documents.
 - ④ Transverse joint spacing on new concrete pavement is controlled by the intake boxout. Adjust adjacent joint spacing as required to accommodate boxouts.
- For retrofit intakes, match existing pavement joints. Stop any transverse pavement joints that do not conform to the minimum spacing requirements at the edge of the insert area.

MAXIMUM PIPE DIAMETERS		
Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	24"	30"
Long Wall	30"	36"

SUDAS	IOWADOT	REVISION 4 04-21-20
FIGURE 600.507	STANDARD ROAD PLAN	SW-507
SHEET 2 of 2		
REVISIONS: Added Class I Bedding Material and changed maximum box out length to 17'.		
Paul D. Wiegand, Design Methods Engineer		
SINGLE OPEN-THROAT CURB INTAKE, SMALL BOX		

FIGURE 600.516 SHEET 2 OF 3



- ① Install four #4 diagonal bars at manhole opening and at all pipe openings.
- ② Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
- ③ 12 inch minimum wall height above all pipes.
- ④ Form pockets in the wall to receive integral beams in the top.

REINFORCING BAR LIST						
Mark	Size	Location	Shape	Count	Length	Spacing
4t1	4	Top	—	2	7'-4"	See Detail
4t2	4	Top	—	4	7'-4"	See Detail
4t3	4	Top	—	10	7'-4"	12"
4t4	4	Top	—	14	4'-2"	12"
3t5	3	Top	□	30	3'-1"	6"
4t6	4	Top	—	4	7'-4"	See Detail
6t7	6	Top	—	4	7'-4"	See Detail
4w1	4	Walls	—	Varies	7'-4"	12"
4w2	4	Walls	—	32	Wall Height minus 4"	12"
5b1	5	Base	—	9	7'-10"	12"
5b2	5	Base	—	9	7'-10"	12"

SUDAS	IOWADOT	REVISION New 4-18-24
FIGURE 600.516	STANDARD ROAD PLAN	SW-516
SHEET 2 of 3		
REVISIONS: New		
Paul D. Wiegand, Design Methods Engineer		
LARGE WELL DOUBLE GRATE INTAKE WITH MANHOLE		

DESIGNED	REV	DESCRIPTION	DATE
FAM			
DRAWN	PL		
CHECKED	JLE		
CLIENT PROJ. NO.	0A1.133739		

FIGURE 6010.516 SHEET 3 OF 3

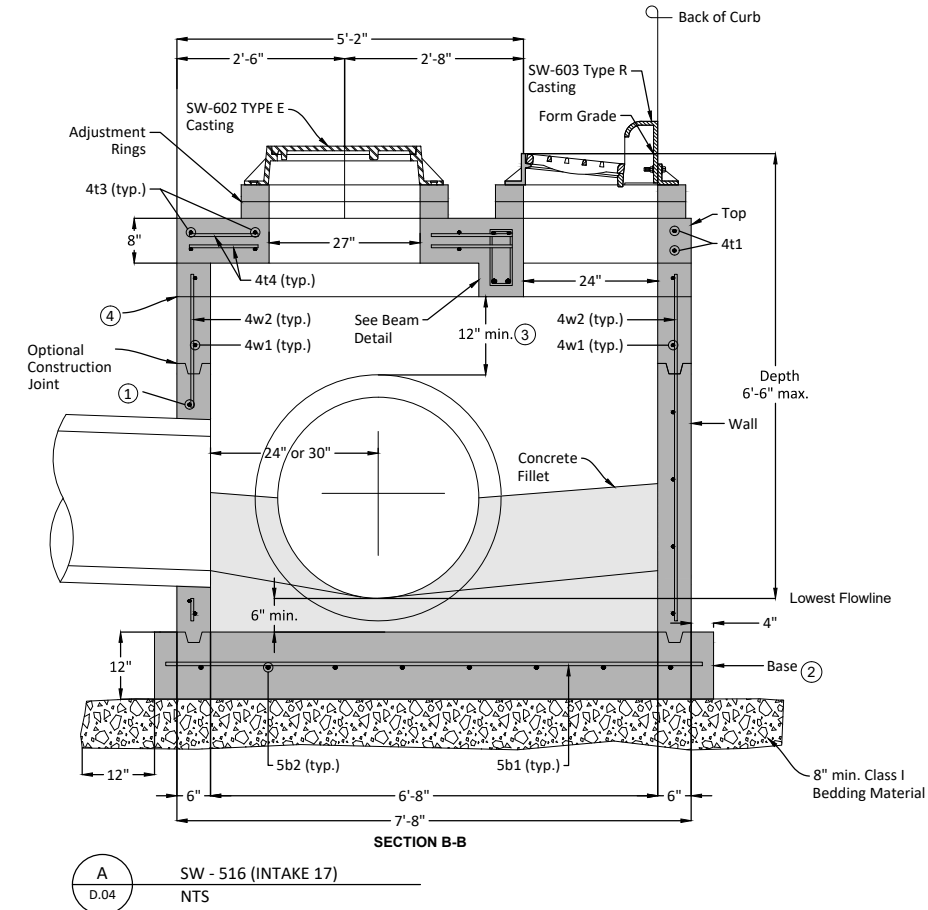
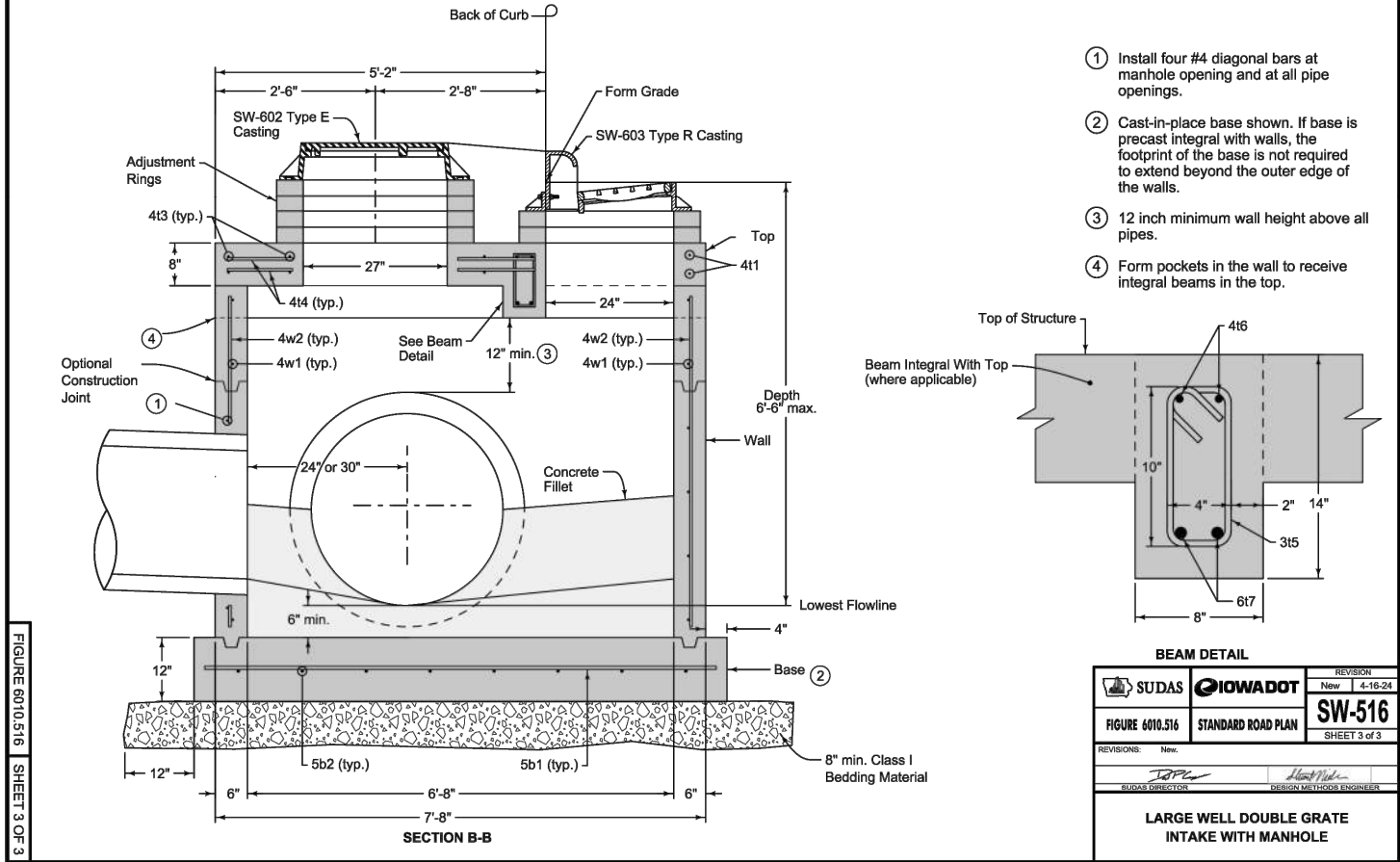
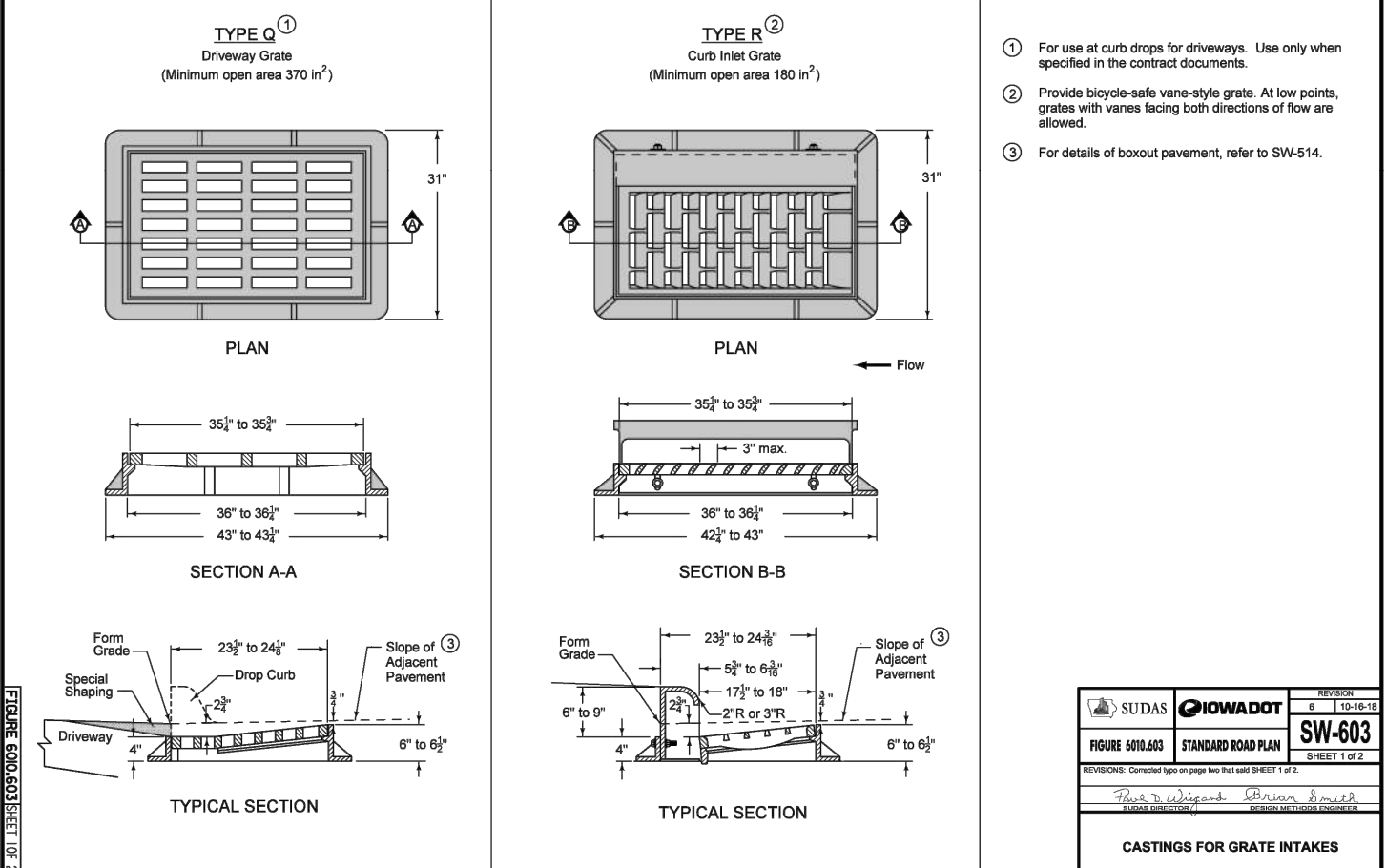
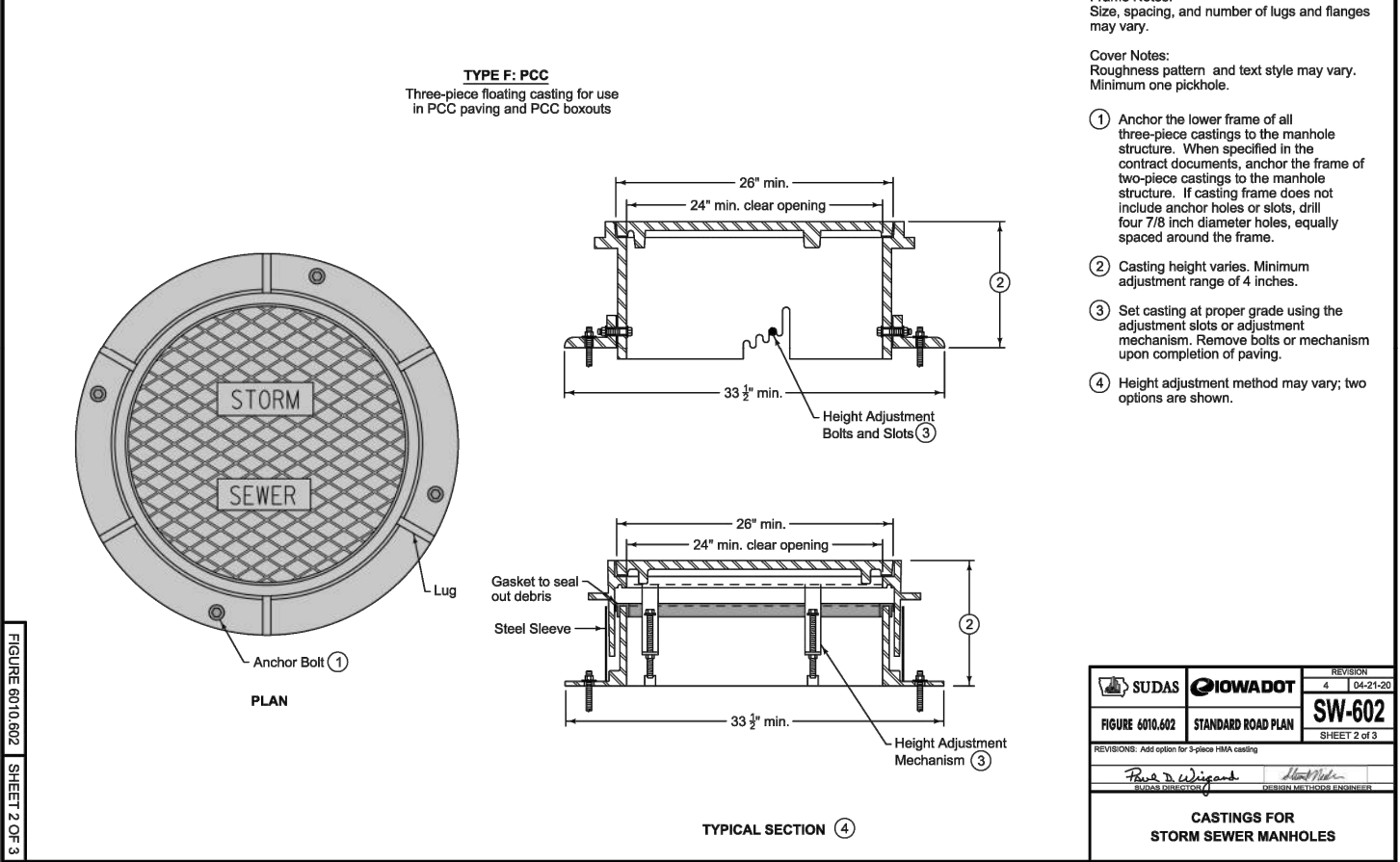
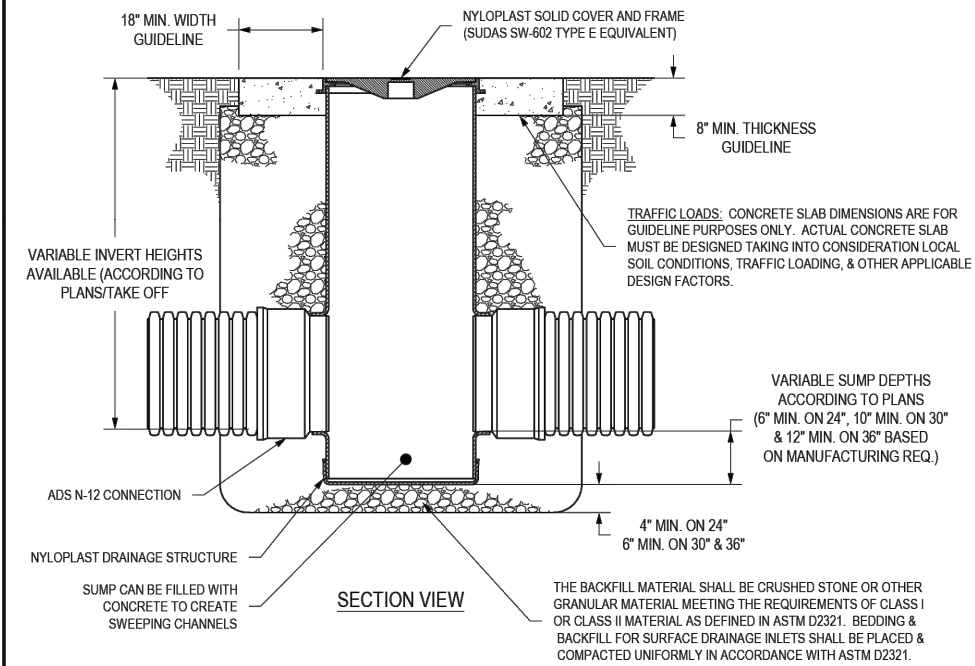


FIGURE 6010.602 SHEET 2 OF 3



NYLOPLAST STRUCTURES EQUIVALENT TO SUDAS SW-401 & SW-402



TOP VIEW
NYLOPLAST SOLID COVER AND FRAME

NYLOPLAST STRUCTURE SIZE (INCHES)	MAXIMUM PIPE DIAMETER (INCHES) FOR 2 PIPES	
	AT 180° SEPERATION	AT 90° SEPERATION
24	24	18
30	30	24
36	36	24

SEE NYLOPLAST DRAWING NO. 7001-110-012 FOR MORE INFORMATION

- NOTES:
- 1 - 24" & 30" SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - 2 - 24" & 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - 3 - 36" X 30" REDUCING TO SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - 4 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
 - 5 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
 - 6 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
 - 7 - 24" & 30" SOLID COVERS SHALL MEET H-20 LOAD RATING.
 - 8 - SUMP CAN BE FILLED WITH CONCRETE AND MOLDED TO CREATE SWEEPING CHANNELS IF DESIRED.

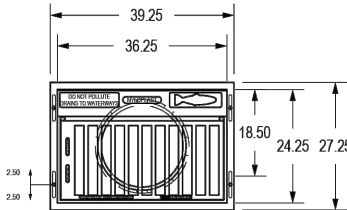
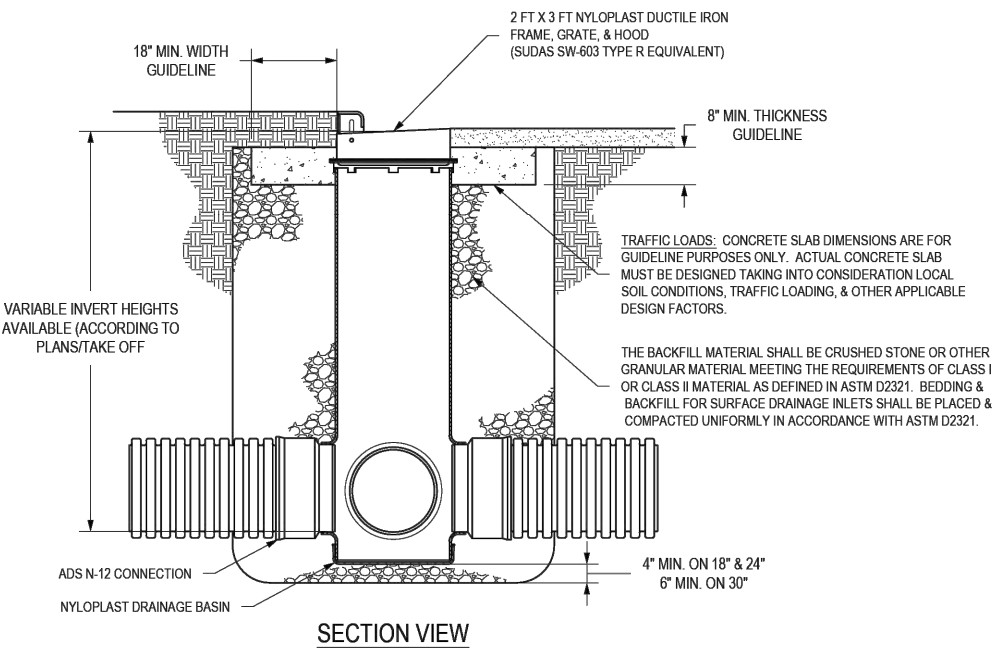
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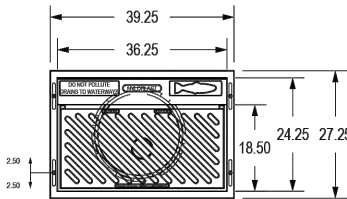
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DATE	08-13-24	
APPD BY	NMH	PROJECT NO./NAME
DATE	08-13-24	
DWG SIZE	A	SCALE 1:30 SHEET 1 OF 1

	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
	TITLE NYLOPLAST 24"-36" DRAIN BASIN WITH SOLID COVER EQUIVALENT TO SUDAS SW-401 & SW-402
DWG NO.	SW-401 & SW-402
REV	A

NYLOPLAST 2 FT X 3 FT ROLL CURB INLET STRUCTURE EQUIVALENT TO SUDAS SW-501 & SW-502



TOP VIEW
CURB INLET HOOD, HIGH FLOW GRATE, AND FRAME



TOP VIEW
CURB INLET HOOD, DIAGONAL GRATE, AND FRAME

NYLOPLAST DRAIN BASIN SIZE (INCHES)	MAXIMUM PIPE DIAMETER (INCHES) FOR 2 PIPES	
	AT 180° SEPERATION	AT 90° SEPERATION
18	18	15
24	24	18
30	30	24
36	36	24

SEE NYLOPLAST DRAWING NO. 7001-110-012 FOR MORE INFORMATION

- 1 - 18" - 30" FRAMES, GRATES, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 36" X 30" REDUCING PLATE SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 6 - ALL ROLL CURB INLET GRATE OPTIONS SHALL MEET H-20 LOAD RATING

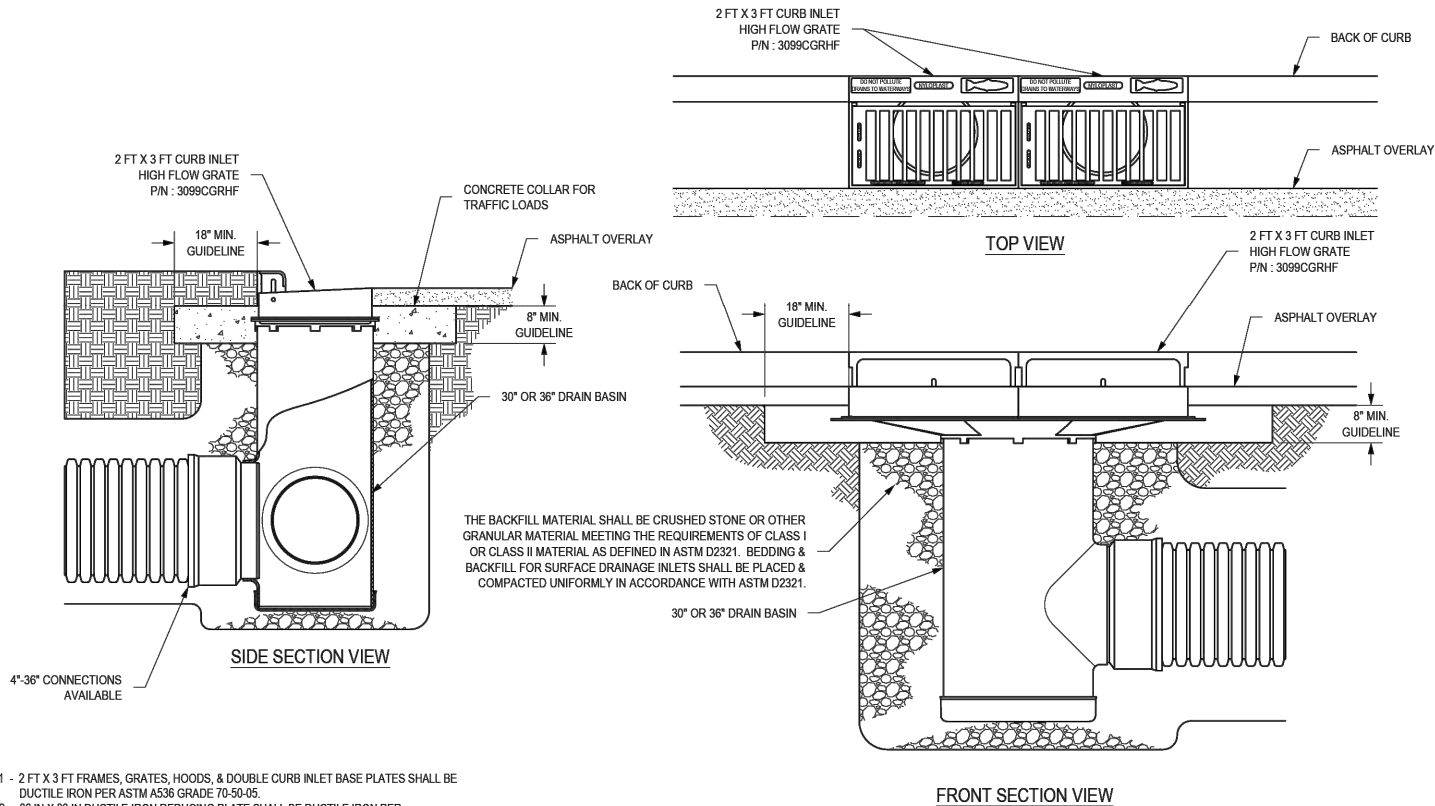
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	TITLE NYLOPLAST 2 FT X 3 FT ROLL CURB INLET STRUCTURE EQUIVALENT TO SUDAS SW-501 & SW-502
DWG NO.	SW-501 & SW-502
REV	A

NYLOPLAST DOUBLE 2 FT X 3 FT CURB INLET STRUCTURE EQUIVALENT TO SUDAS SW-505



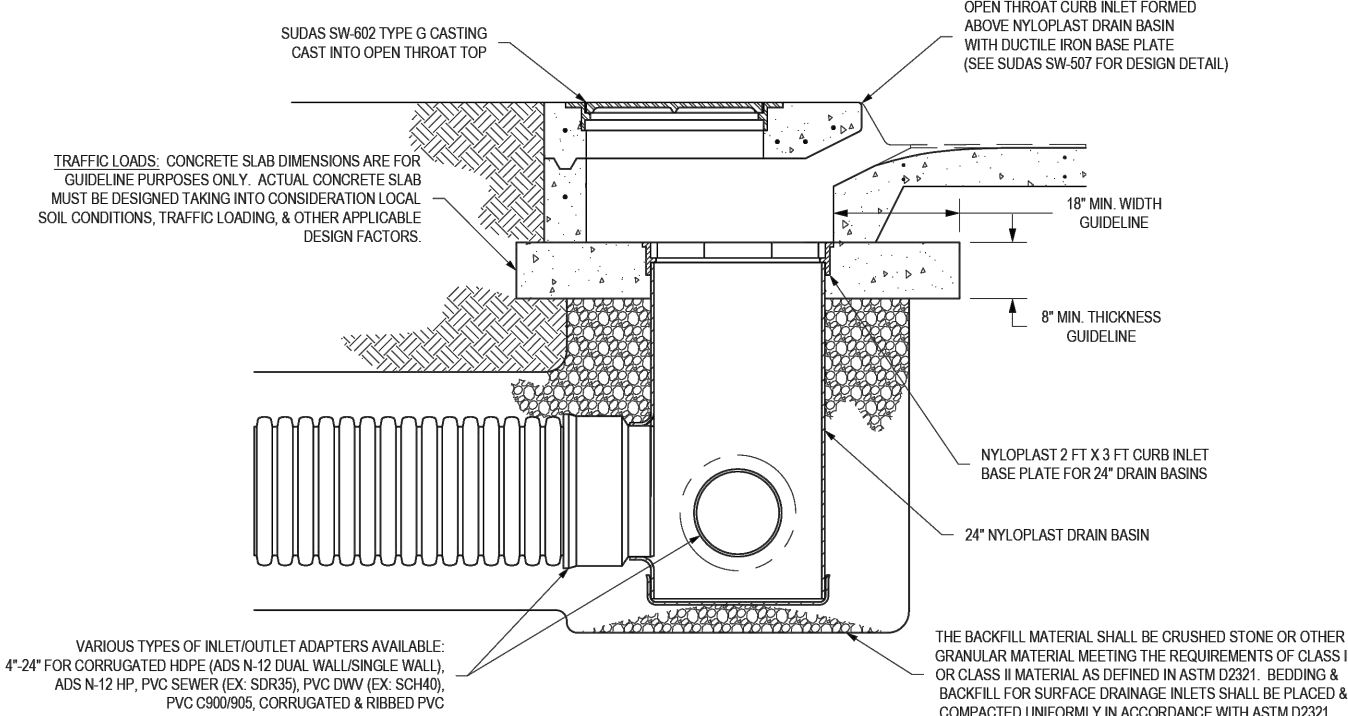
- 2 FT X 3 FT FRAMES, GRATES, HOODS, & DOUBLE CURB INLET BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 36 IN X 30 IN DUCTILE IRON REDUCING PLATE SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4\" - 36\").
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- ALL CURB INLET GRATE OPTIONS (DIAGONAL & HIGH FLOW) SHALL MEET H-20 LOAD RATING.
- TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

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DWG SIZE	A	SCALE	1:30 SHEET 1 OF 1

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TITLE	DOUBLE 2 FT X 3 FT CURB INLET STRUCTURE EQUIVALENT TO SUDAS SW-505
DWG NO.	SW-505 REV A

NYLOPLAST 24" DRAIN BASIN WITH BASE PLATE EQUIVALENT TO SUDAS SW-507



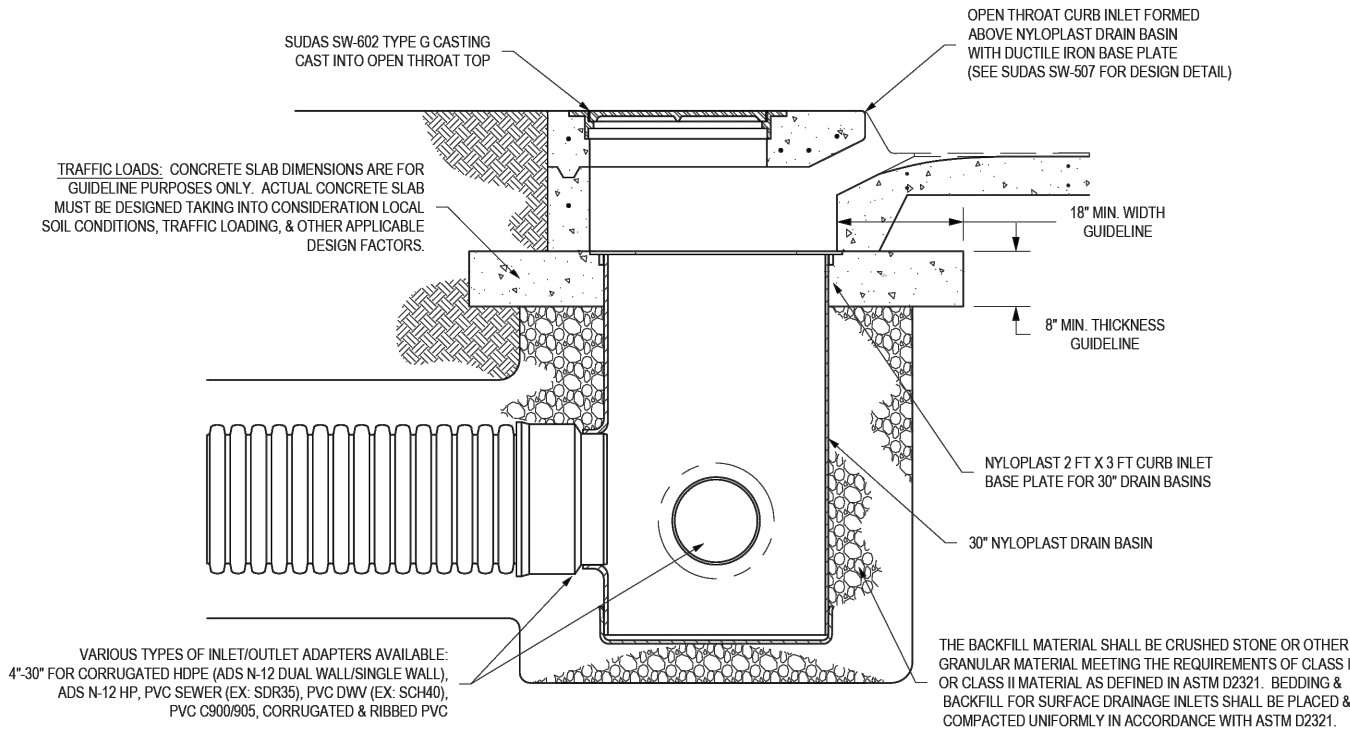
- 24\"
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4\" - 24\").
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- SEE SUDAS SW-507 STANDARD SPECIFICATION FOR CONCRETE CURB CURB OPEN THROAT DETAILS.

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APPD BY	NMH	PROJECT NO./NAME	
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DWG SIZE	A	SCALE	1:20 SHEET 1 OF 1

	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
TITLE	24 IN DRAIN BASIN WITH 2 FT X 3 FT CURB INLET BASE PLATE EQUIVALENT TO SUDAS SW-507
DWG NO.	SW-507 / 24 IN BASIN REV A

NYLOPLAST 30" DRAIN BASIN WITH BASE PLATE EQUIVALENT TO SUDAS SW-507



- 1 - 30" BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- 3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 30").
- 4 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 5 - SEE SUDAS SW-507 STANDARD SPECIFICATION FOR CONCRETE CURB CURB OPEN THROAT DETAILS.

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DATE 08-13-24
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DWG SIZE A
SCALE 1:20
SHEET 1 OF 1

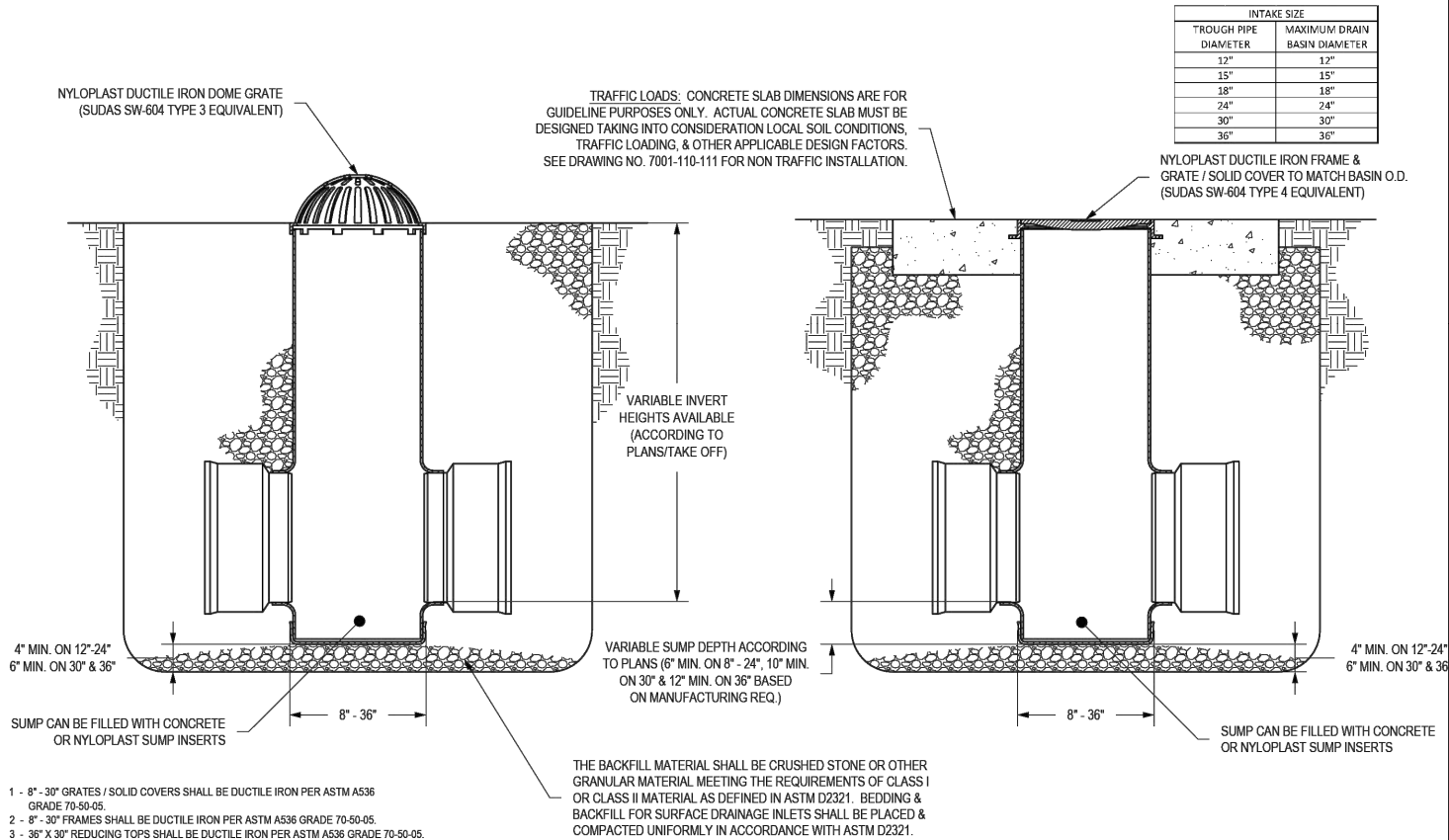


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TITLE
30 IN DRAIN BASIN WITH 2 FT X 3 FT CURB INLET BASE
PLATE EQUIVALENT TO SUDAS SW-507

DWG NO. SW-507 / 30 IN BASIN REV A

NYLOPLAST DRAINAGE STRUCTURES EQUIVALENT TO SUDAS SW-512



- 1 - 8" - 30" GRATES / SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 8" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3 - 36" X 30" REDUCING TOPS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 4 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-085.
- 5 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
- 6 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 7 - 12" - 30" SOLID COVERS SHALL MEET H-20 LOAD RATING.
- 8 - 8" & 10" SOLID COVERS / GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

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SHEET 1 OF 1



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TITLE
NYLOPLAST DRAINAGE STRUCTURE
EQUIVALENT TO SW-512

DWG NO. SW-512 REV A



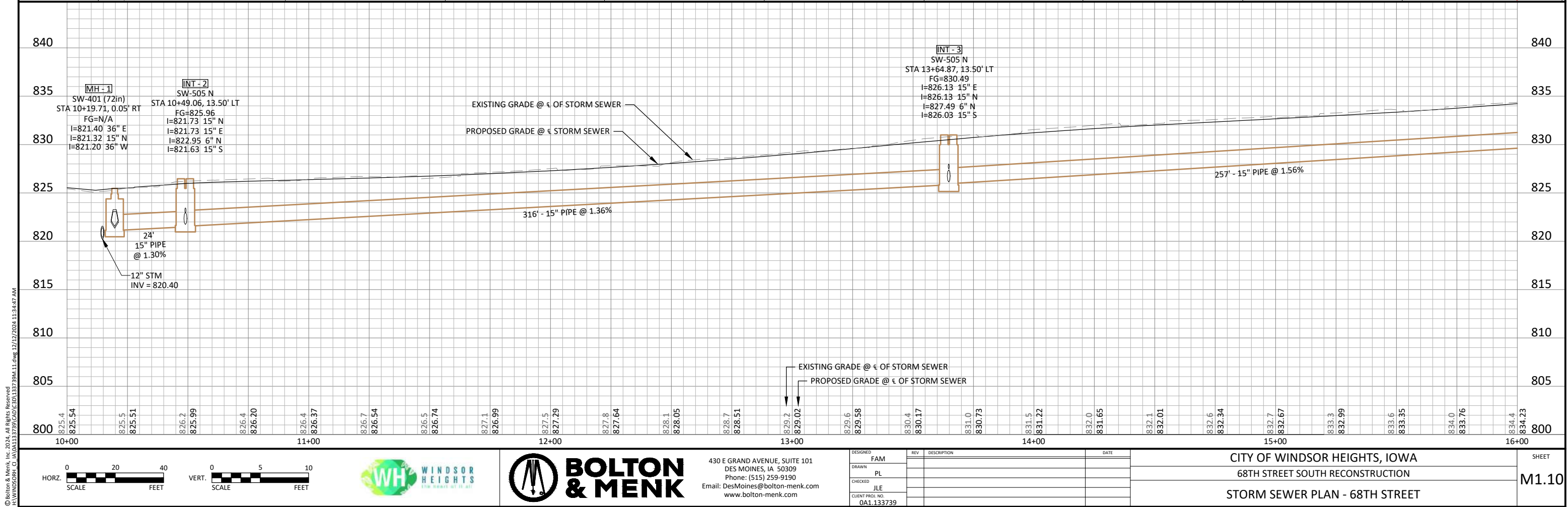
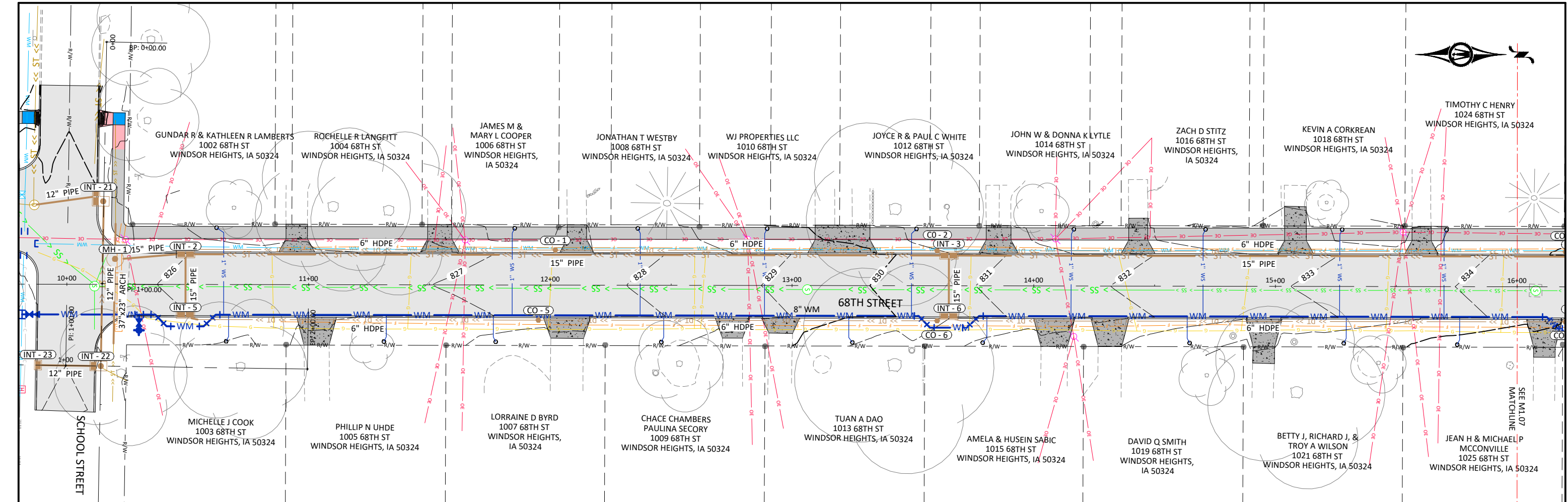
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
STORM SEWER DETAILS

SHEET

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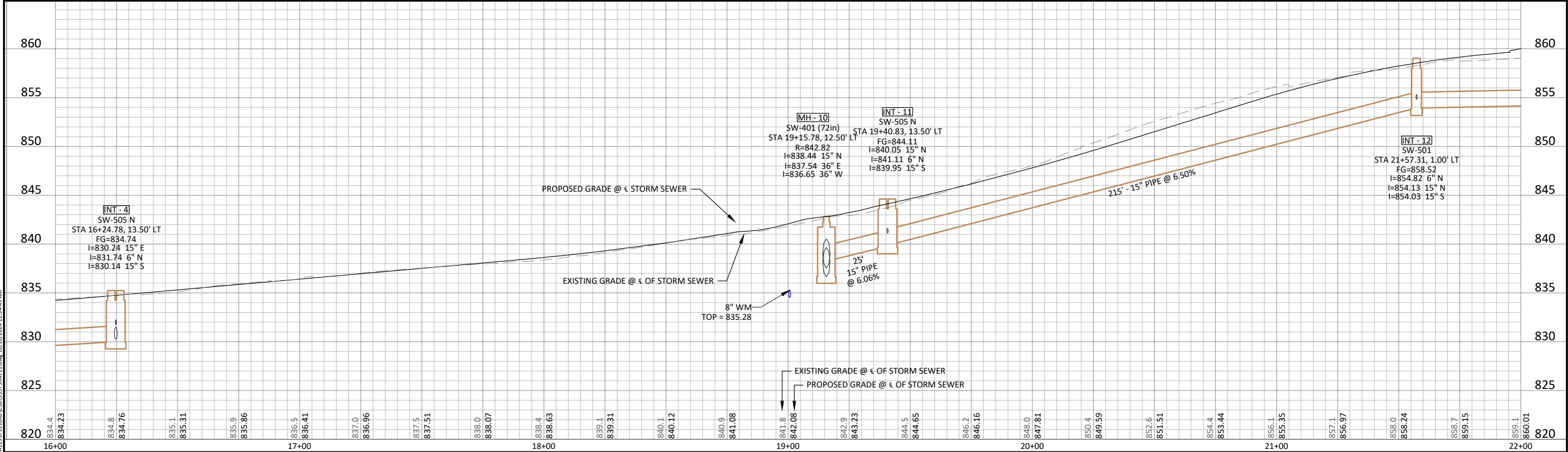
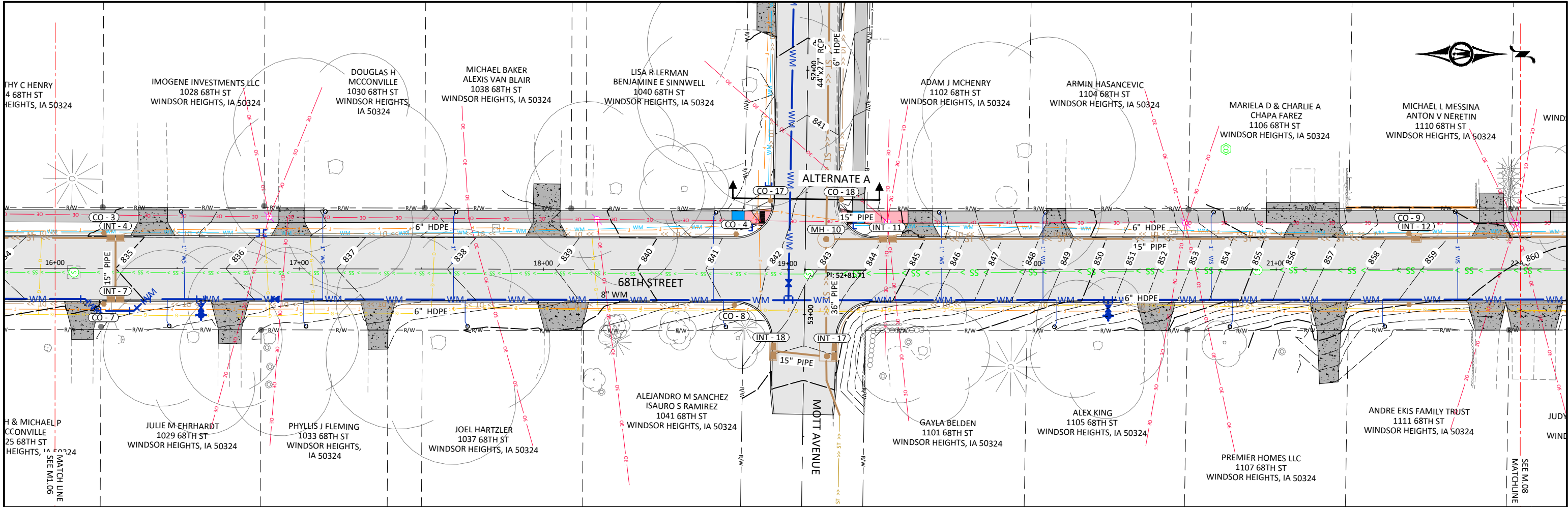


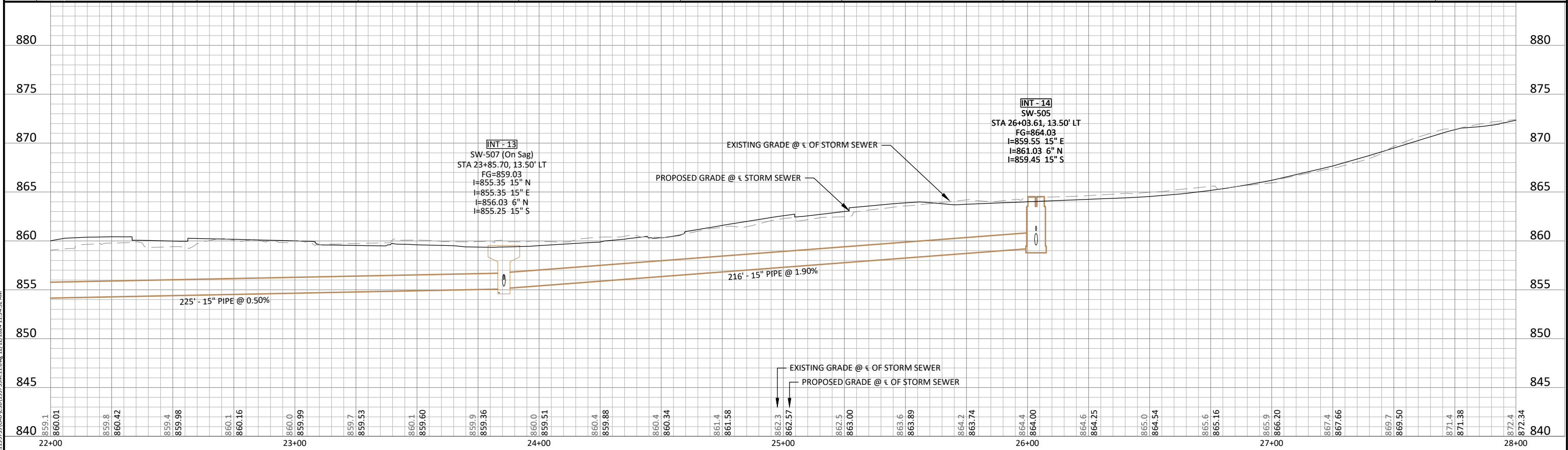
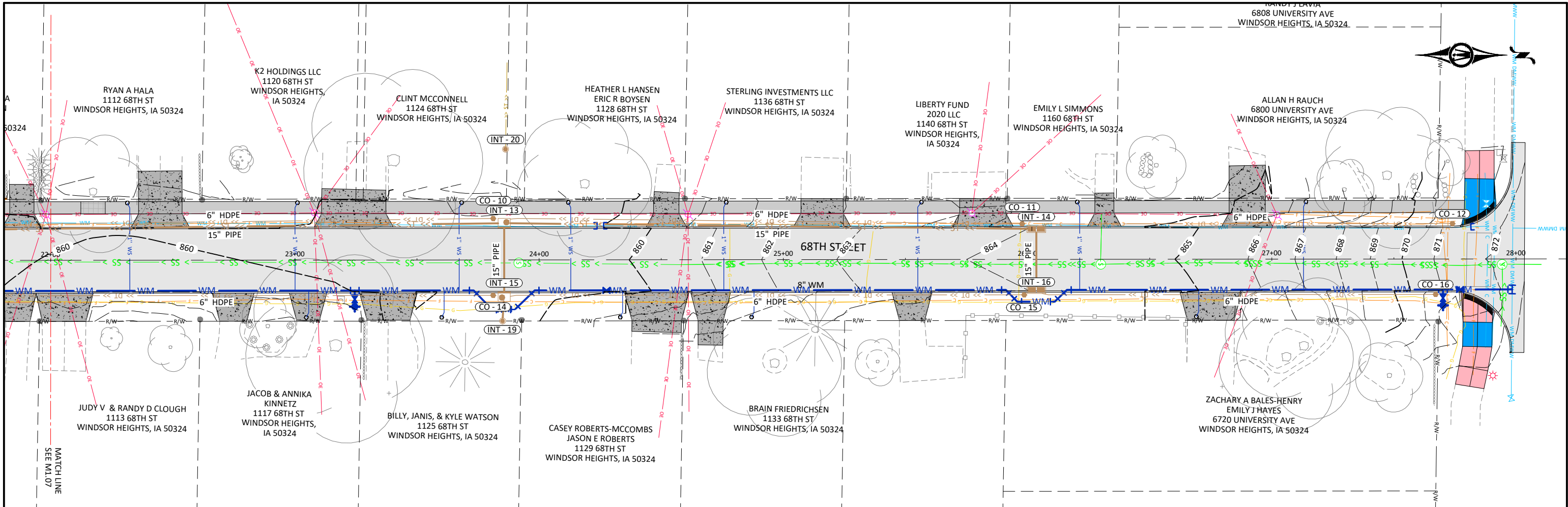
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
STORM SEWER PLAN - 68TH STREET

SHEET
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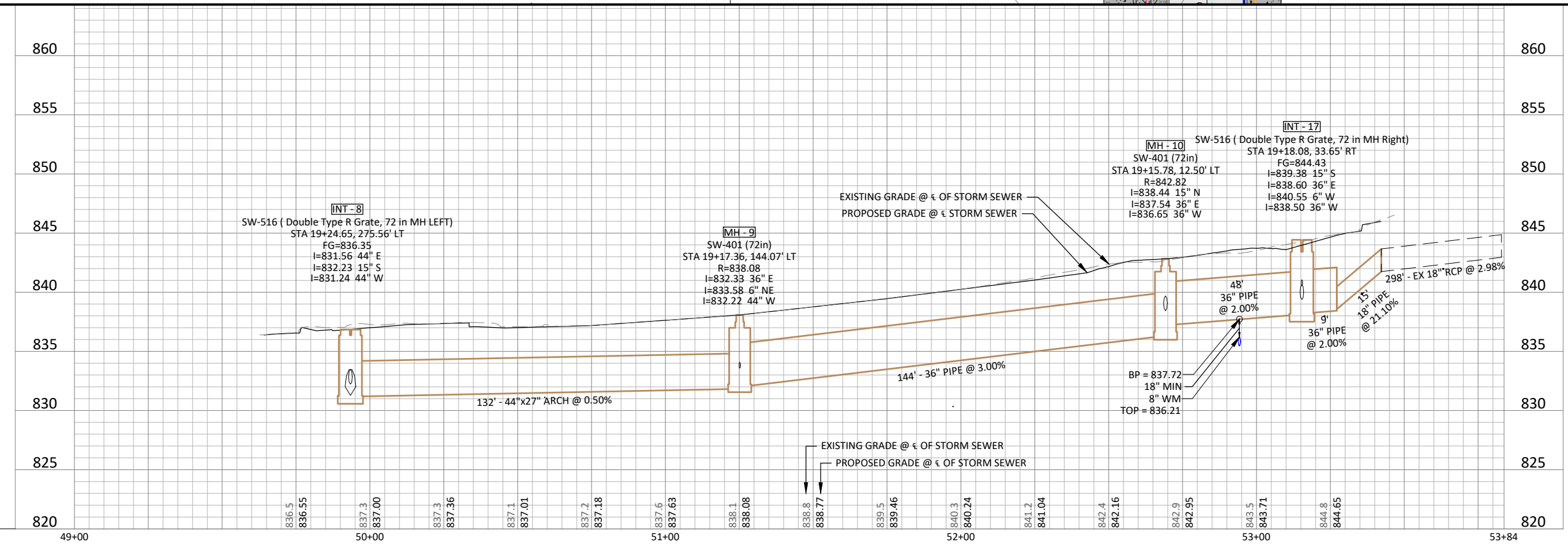
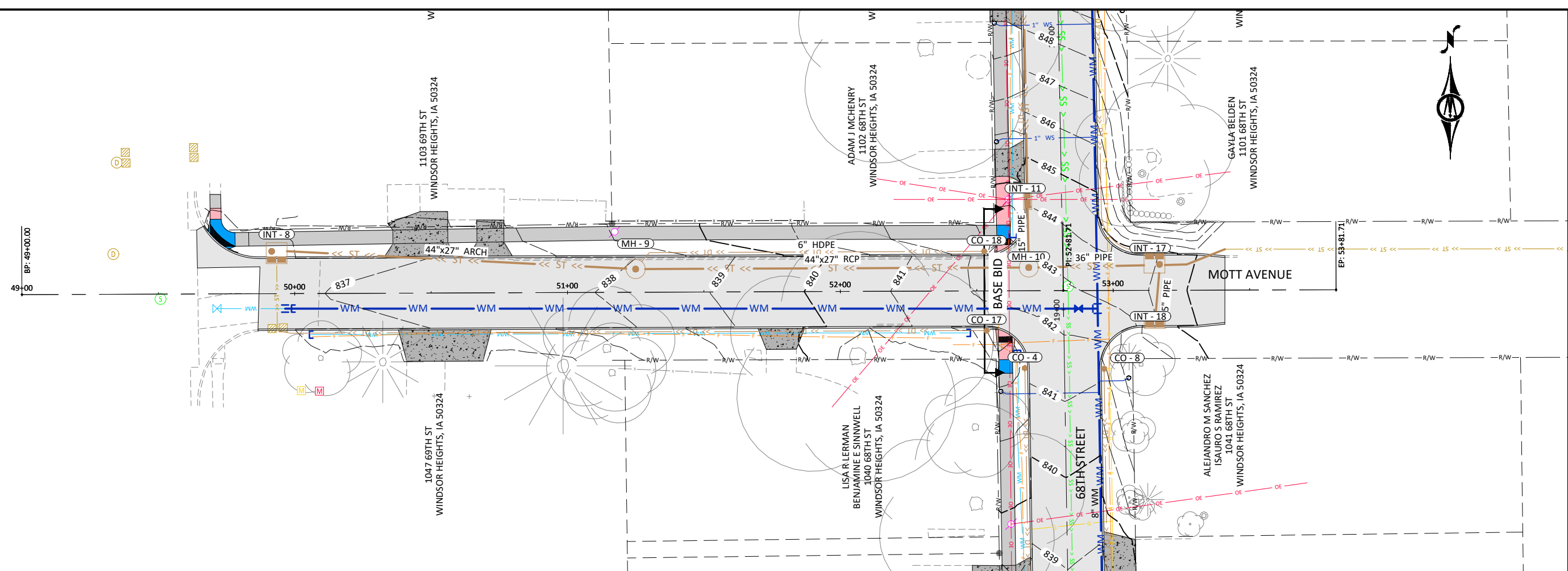
68TH STREET SOUTH RECONSTRUCTION

STORM SEWER PLAN - 68TH STREET

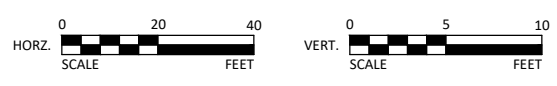
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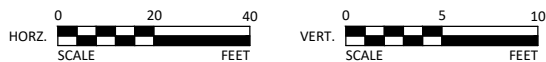
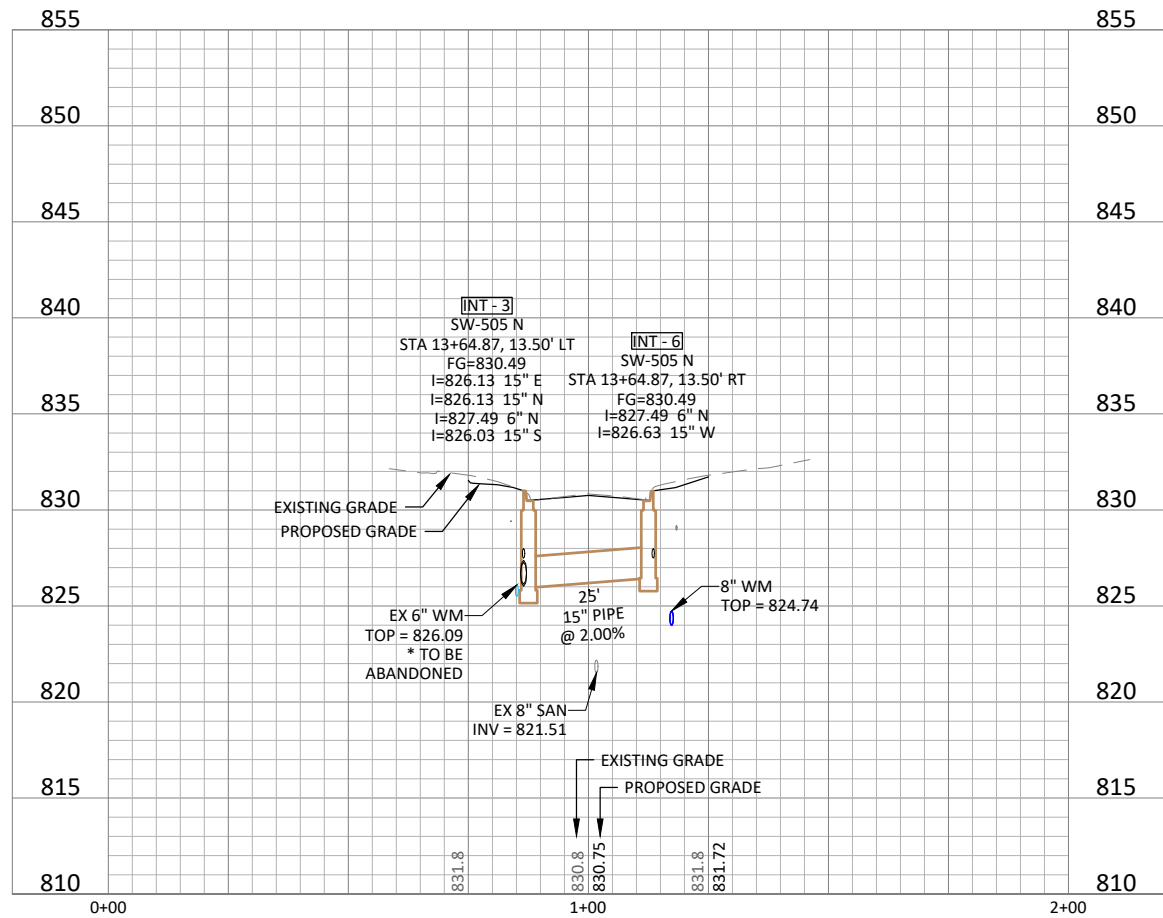
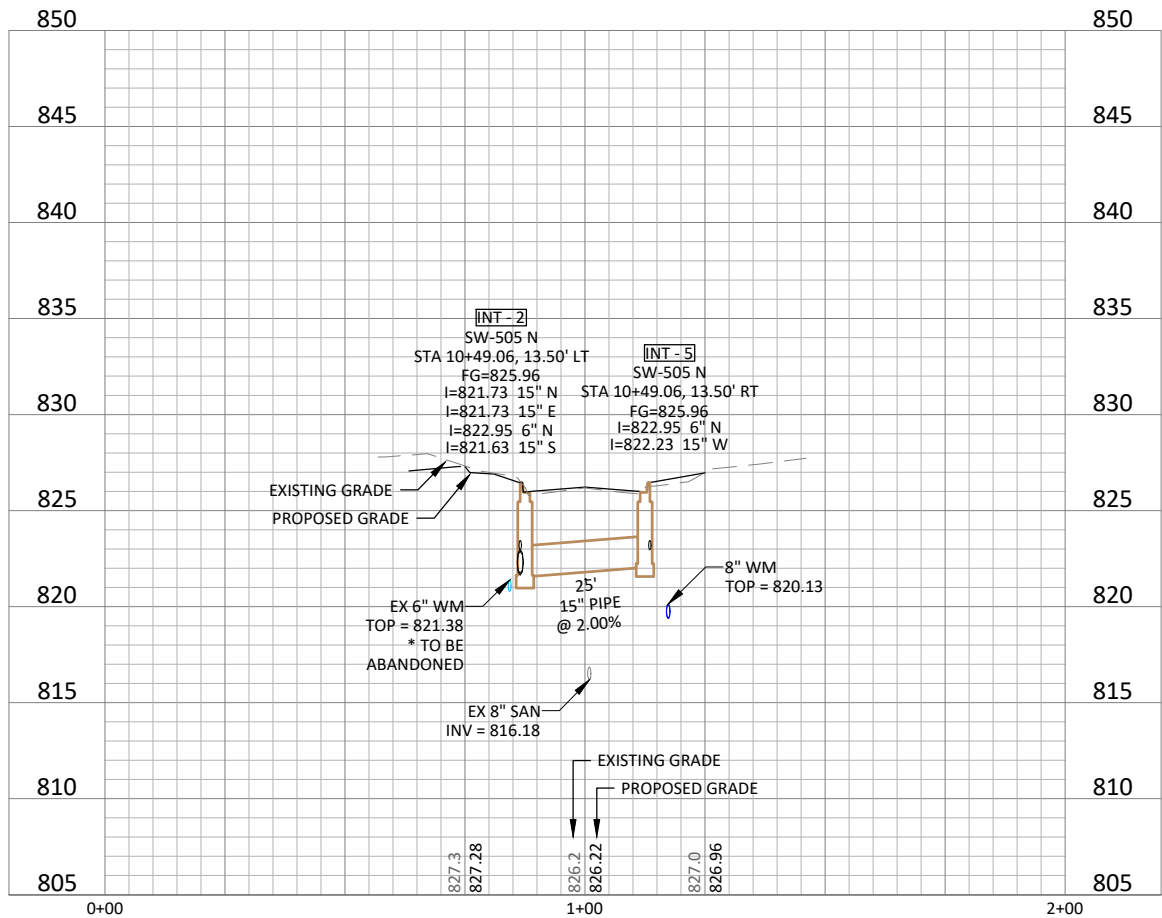
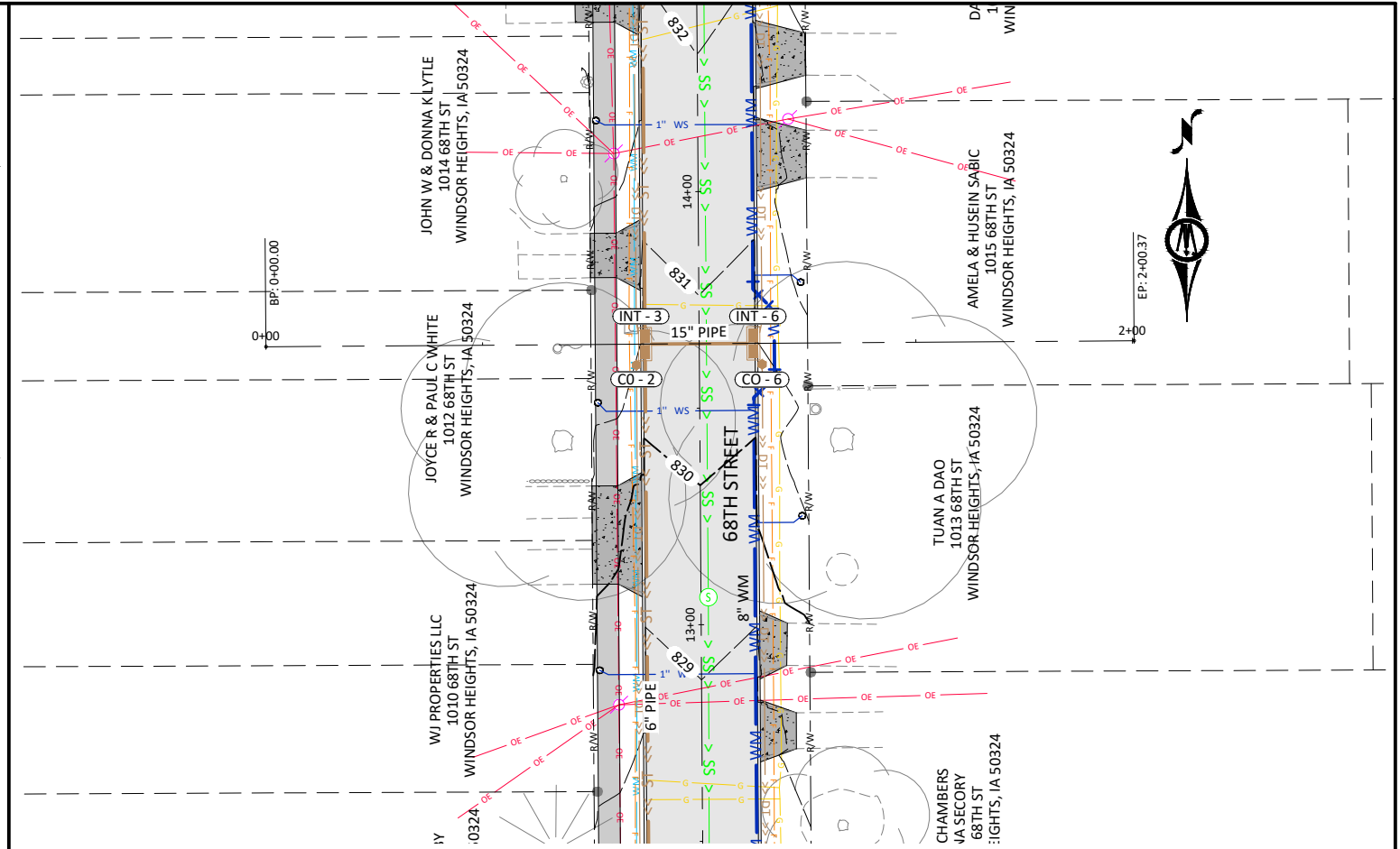
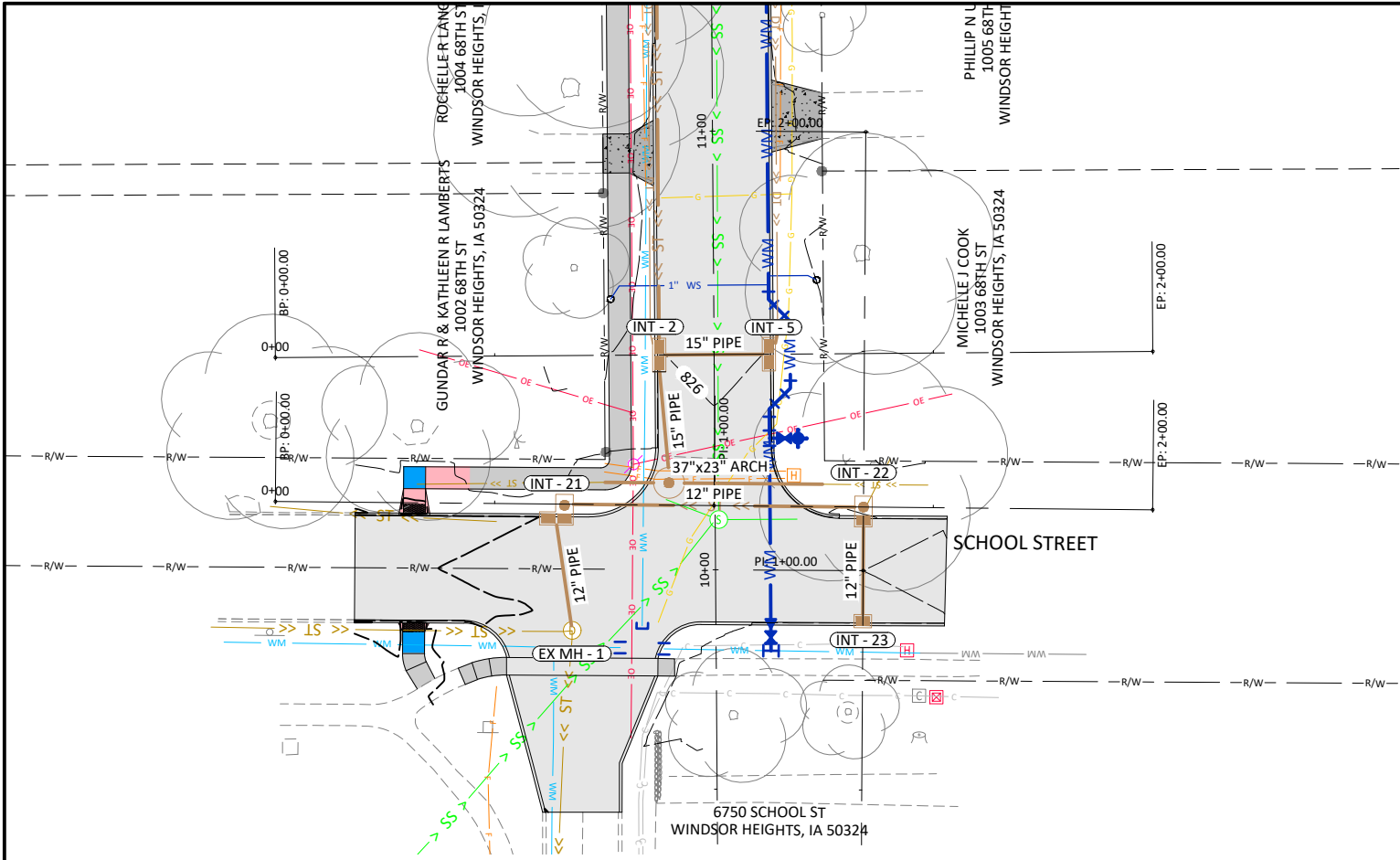


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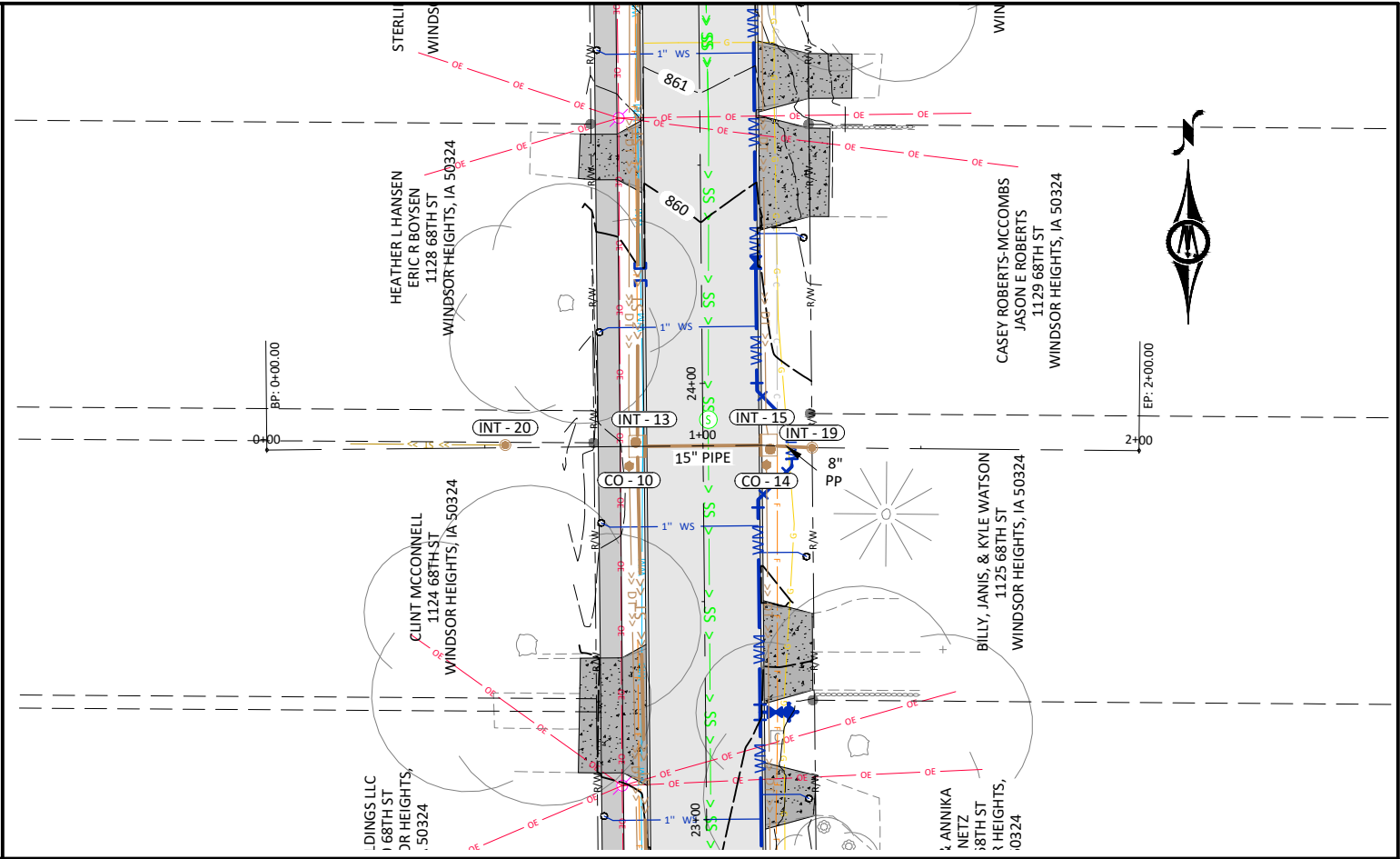
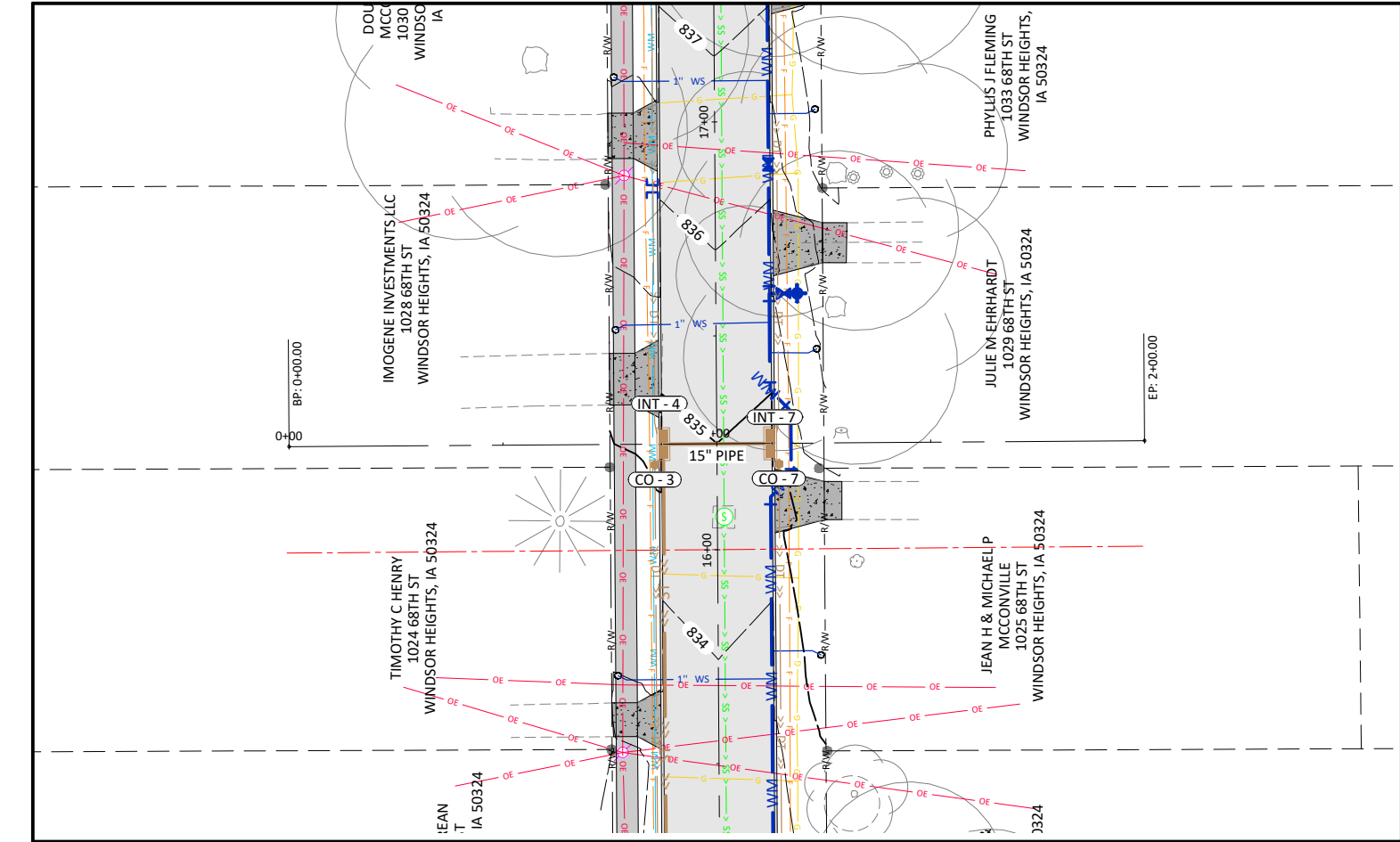


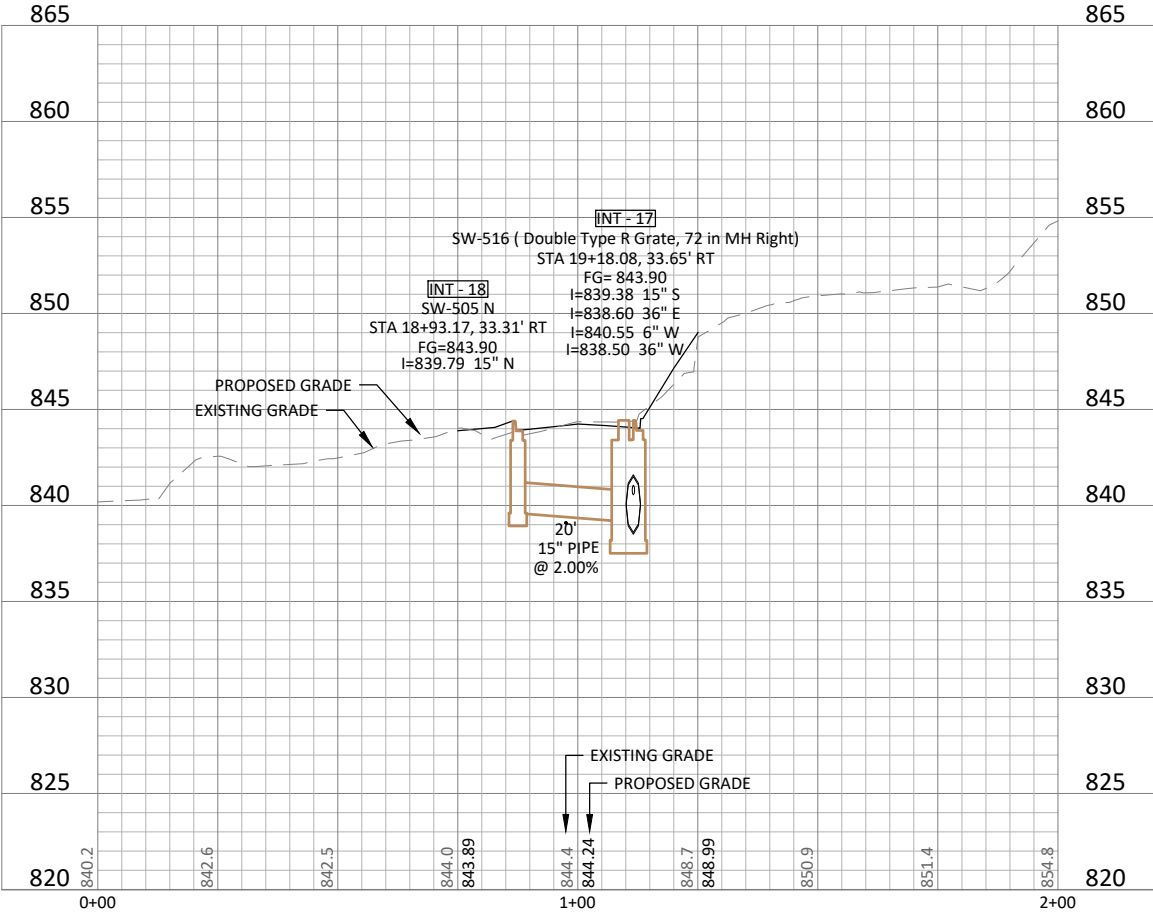
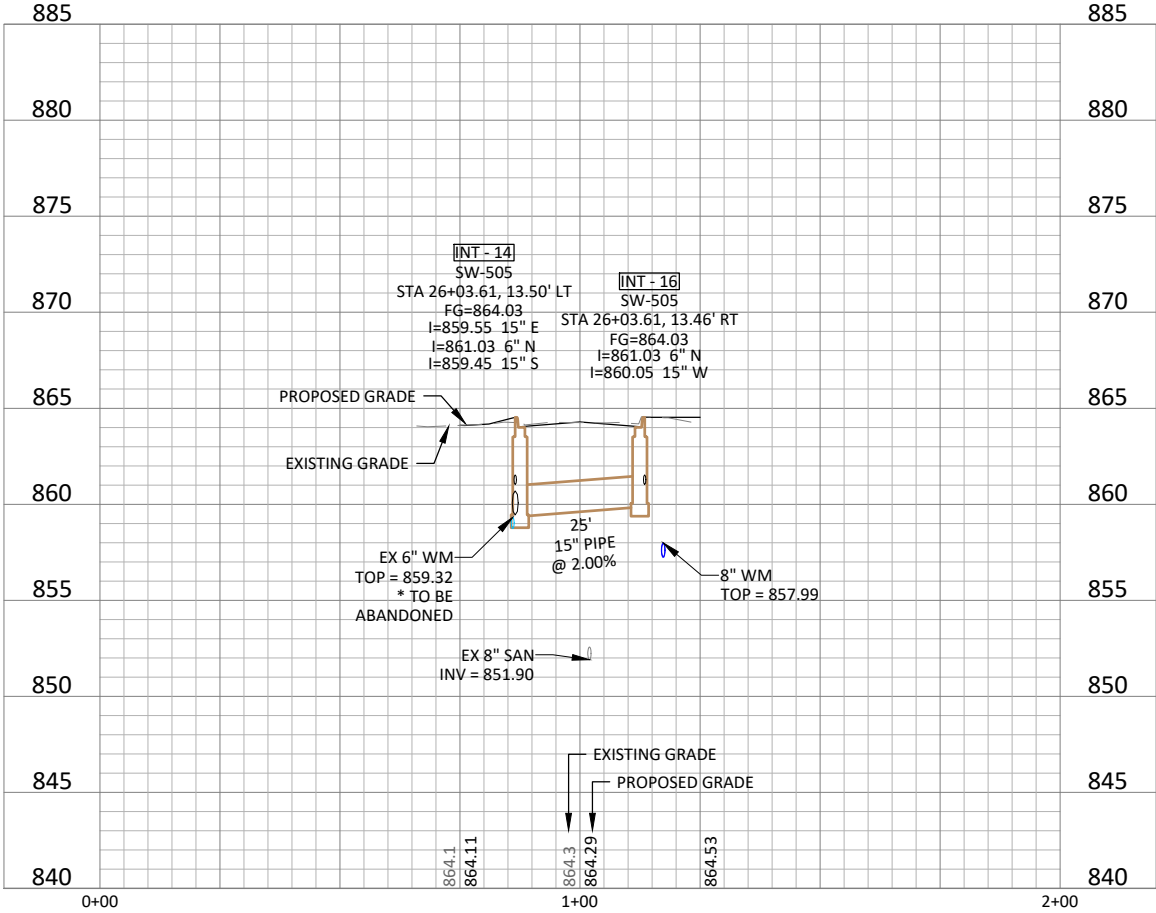
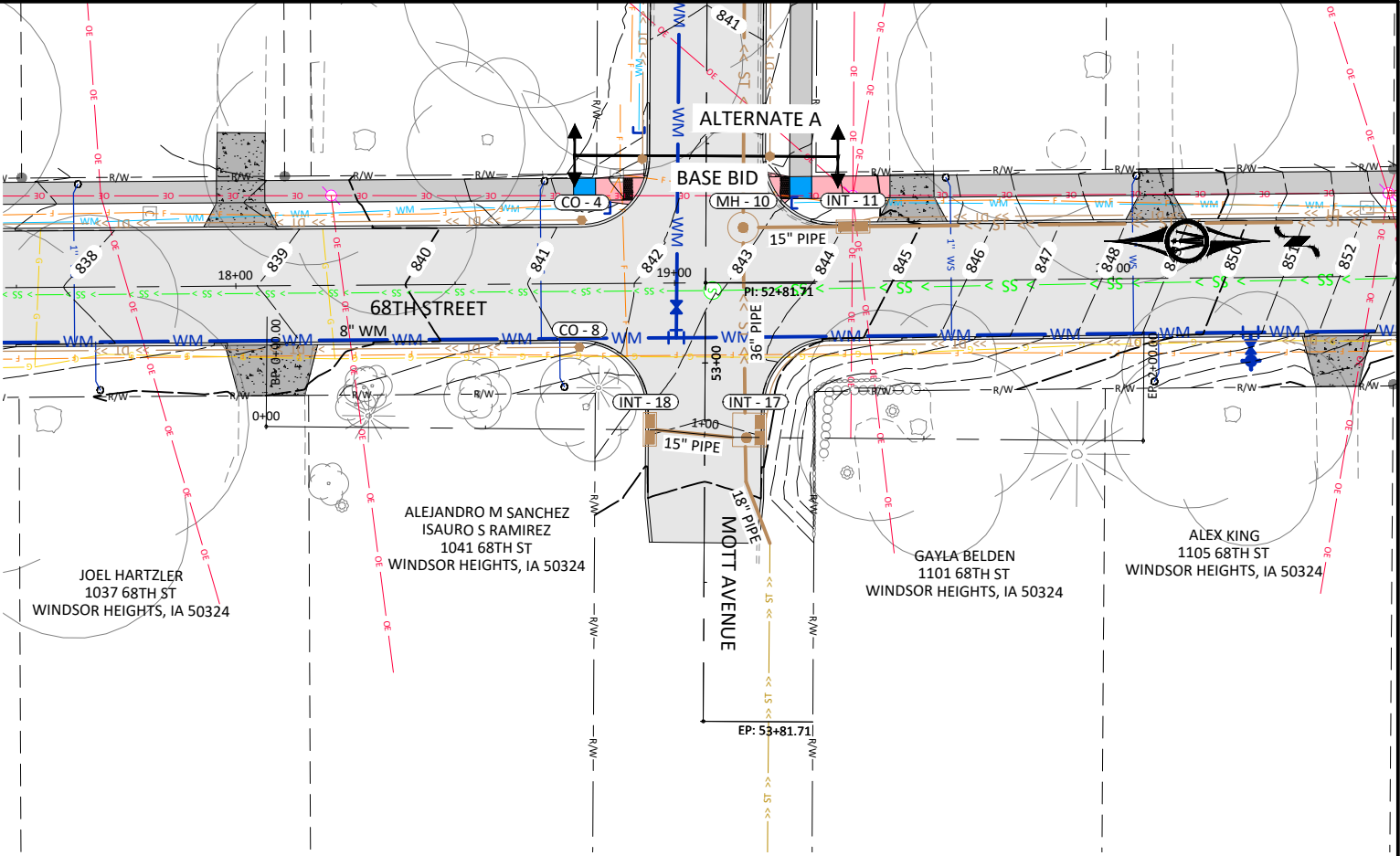
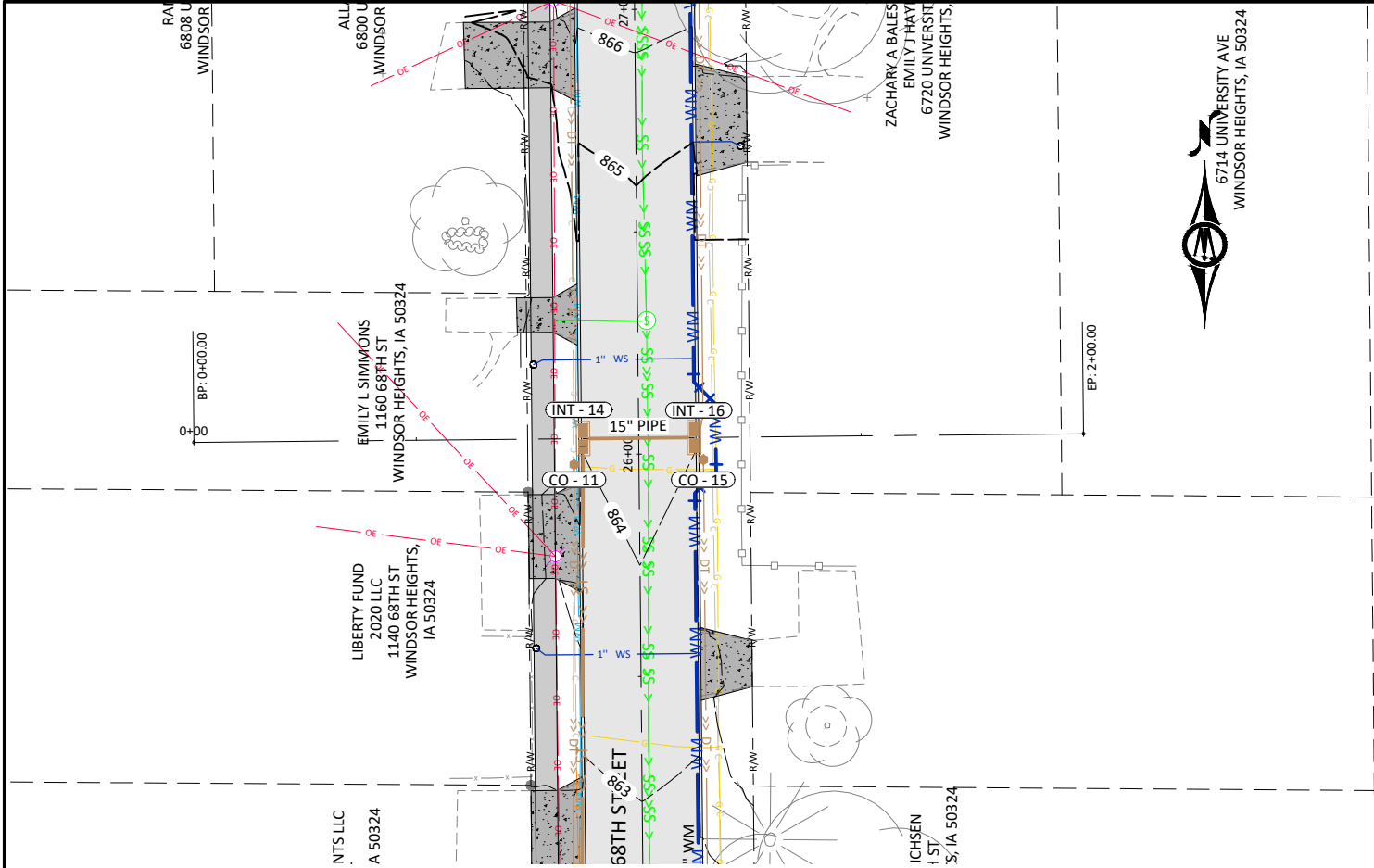
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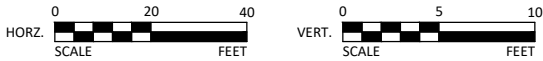
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68TH STREET SOUTH RECONSTRUCTION
STORM SEWER CROSS-RUNS

SHEET
M1.14





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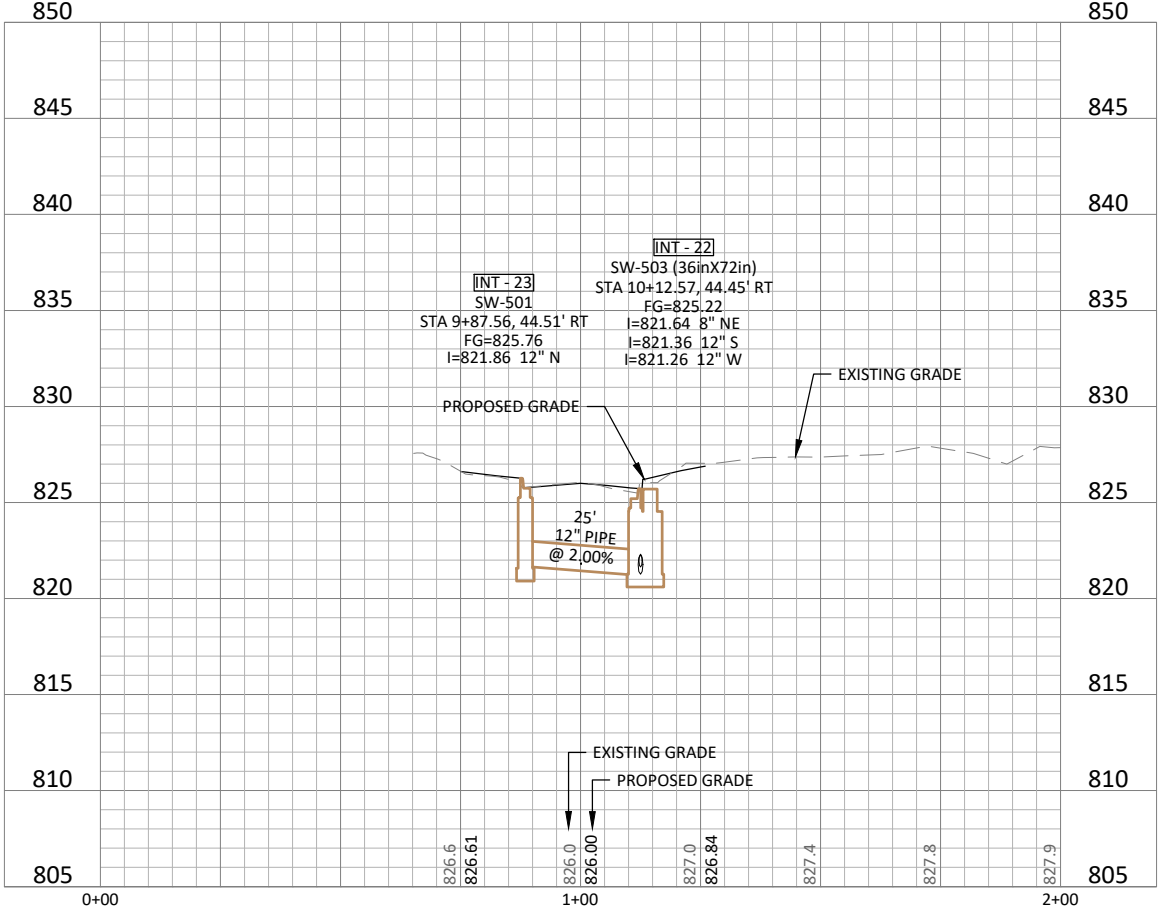
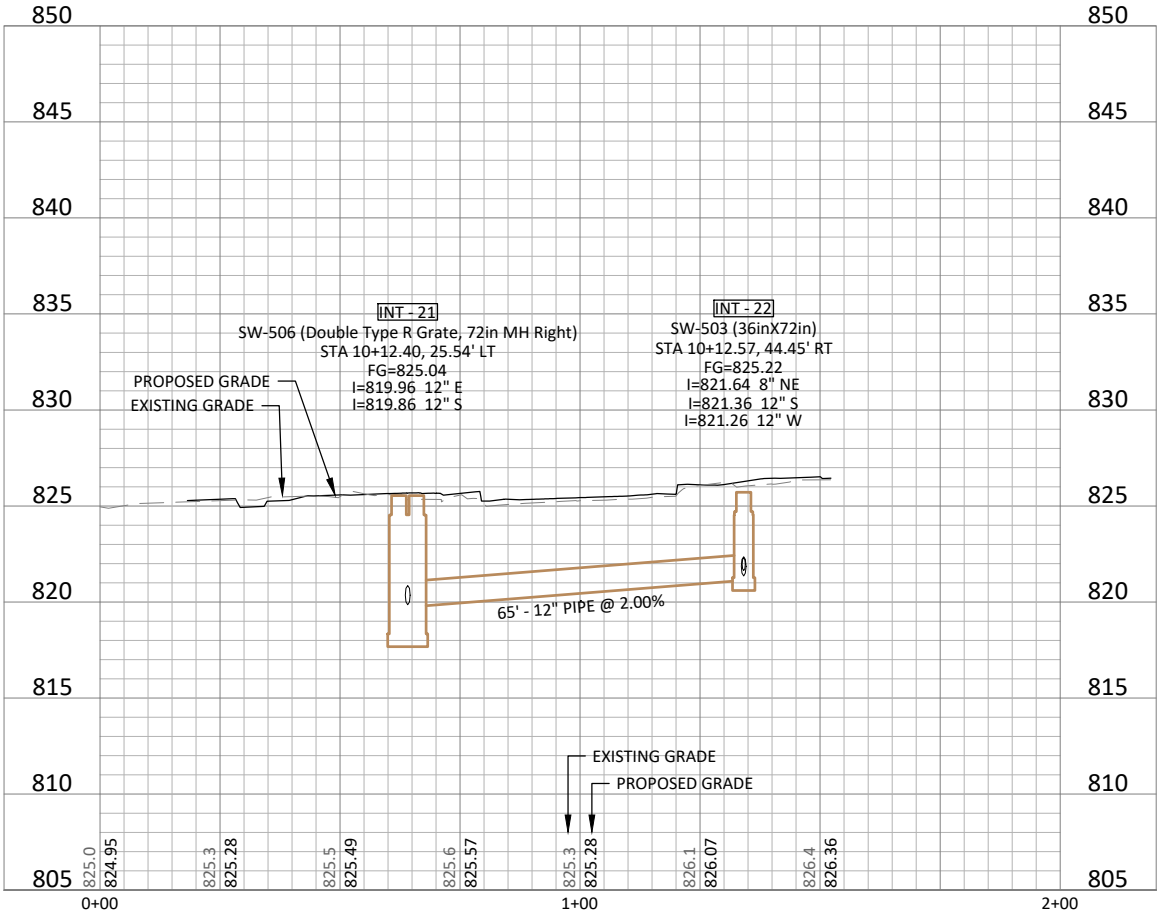
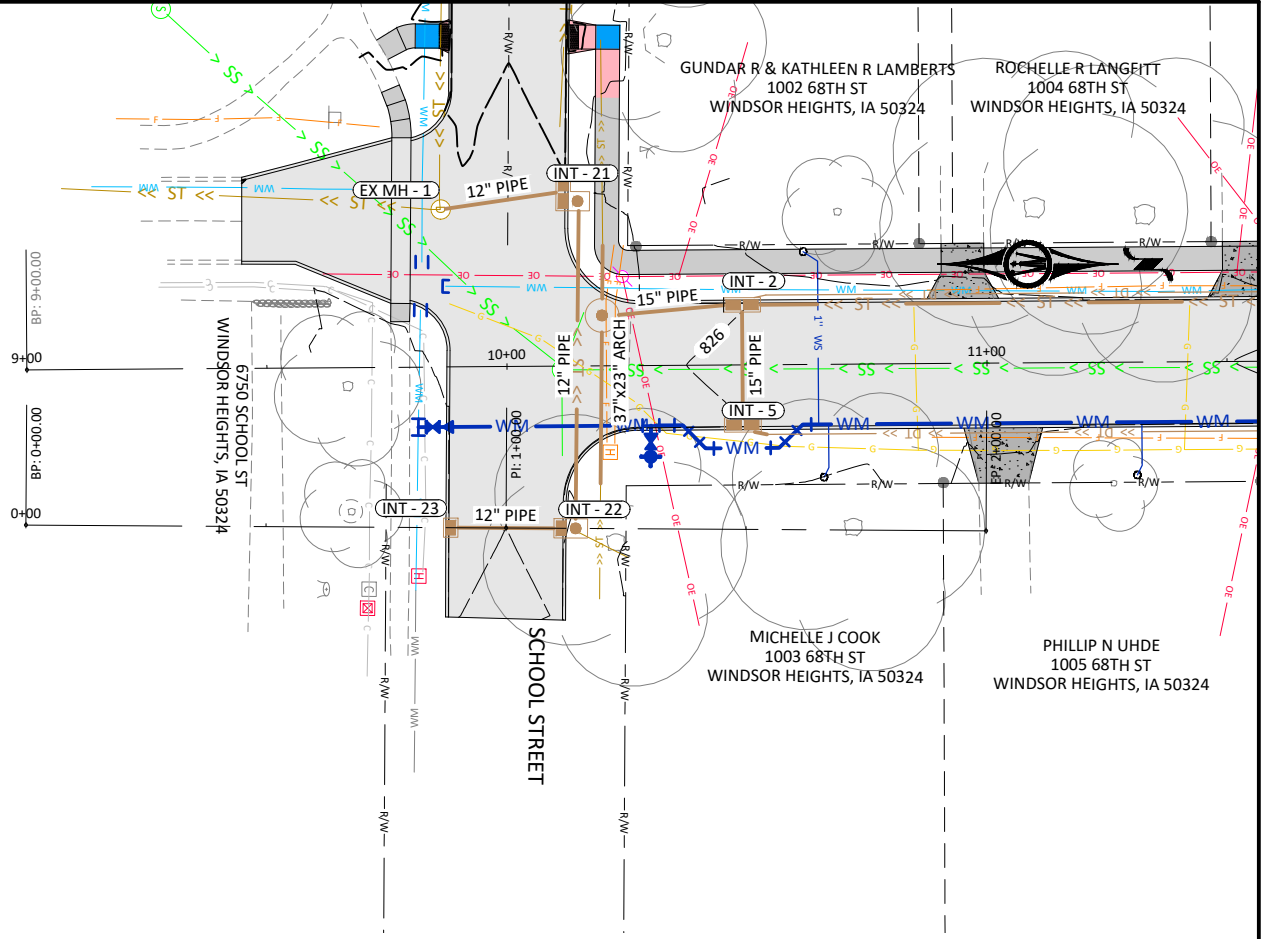
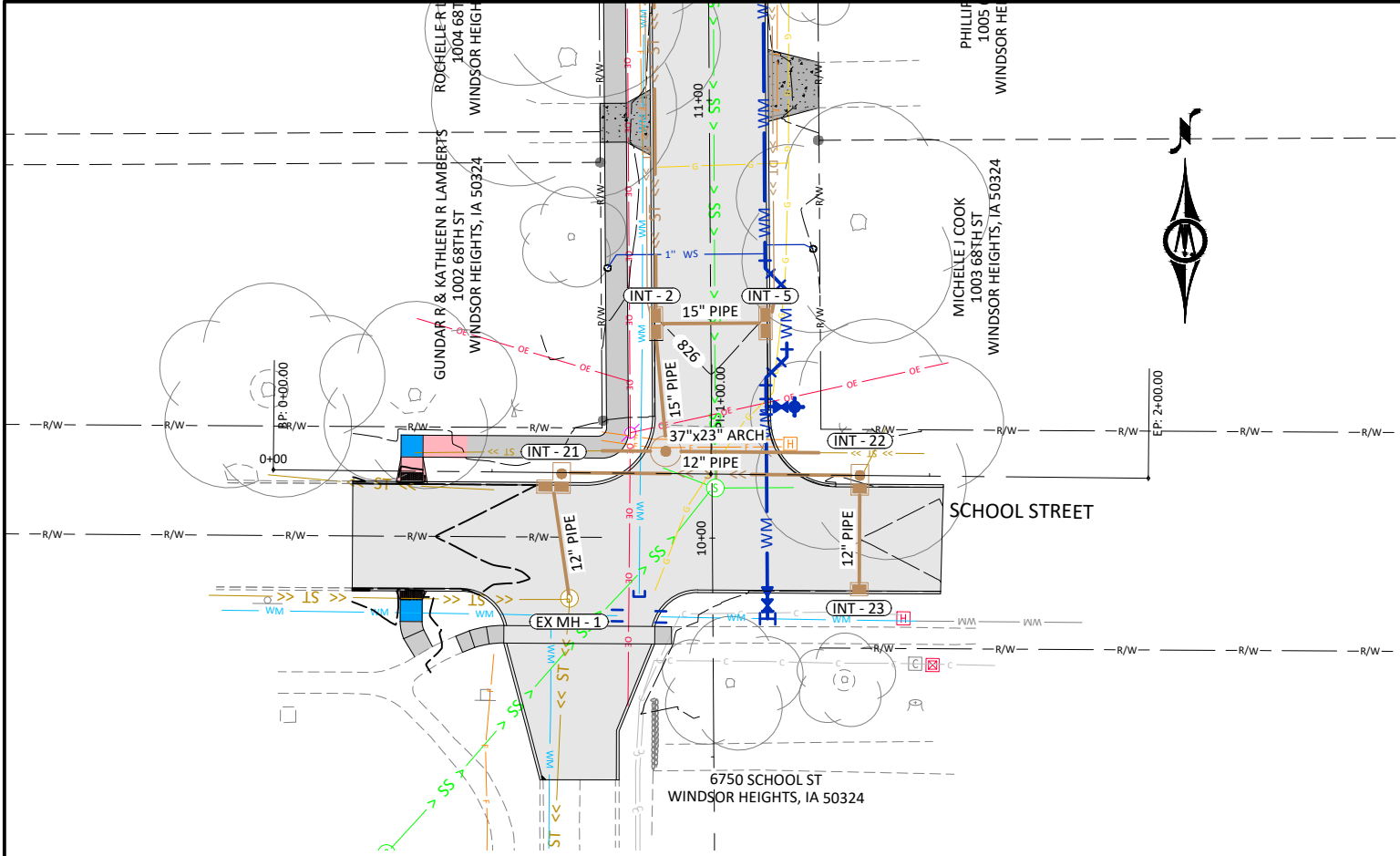


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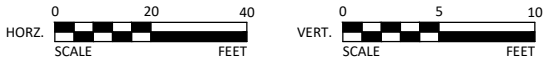
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68TH STREET SOUTH RECONSTRUCTION
STORM SEWER CROSS-RUNS

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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
STORM SEWER CROSS-RUNS

SHEET
M1.17

TYPE C
Two-piece fixed casting with bolt-down cover (2)

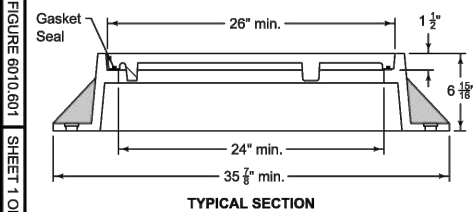
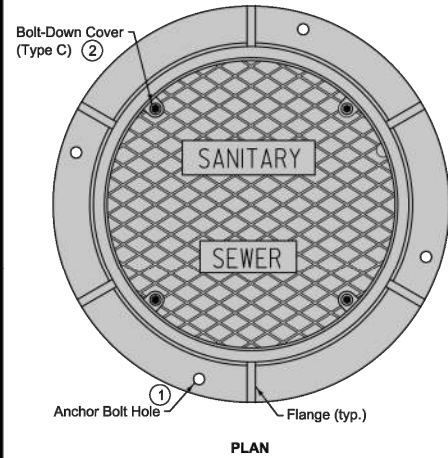
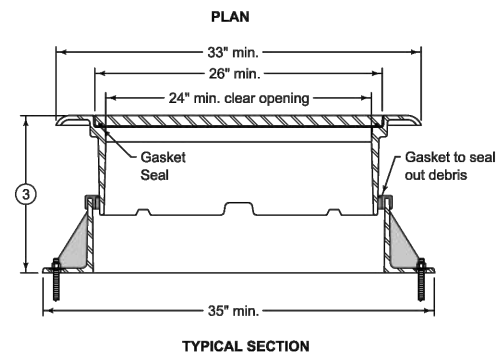
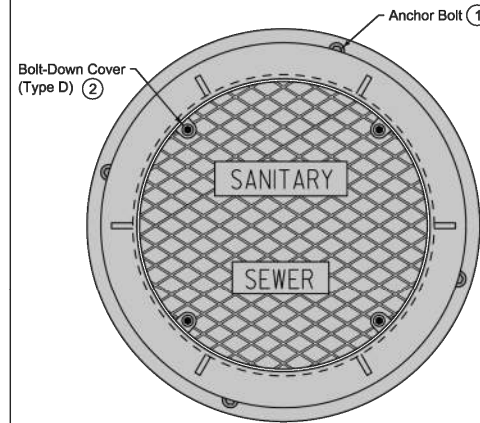


FIGURE 6010.601	SHEET 1 OF 2
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TYPE B: HMA
Three-piece floating casting for use in HMA paving

TYPE D: HMA
Three-piece floating casting with bolt-down cover for use in HMA paving (2)



①

Frame Notes:
Size, spacing, and number of lugs and flanges may vary.

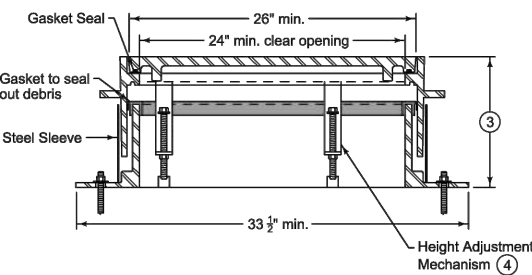
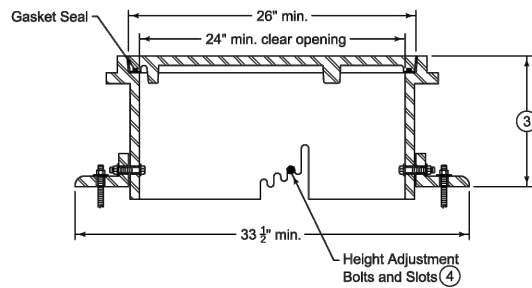
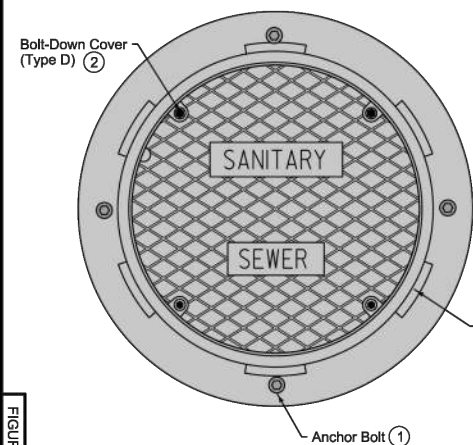
Cover Notes:
Roughness pattern and text style may vary.
Minimum one concealed pickhole.

- ① Anchor the lower frame of all three-piece castings to the manhole structure. When specified in the contract documents, anchor the frame of two-piece castings to the manhole structure. If casting frame does not include anchor holes or slots, drill four 7/8 inch diameter holes, equally spaced around the frame.
- ② If specified, furnish bolt down frame and cover with four 1/2 inch minimum diameter stainless steel, hex nut, recessed cap screws. Secure cover with screws, washers, and rubber gasket seals.
- ③ Casting height varies. Minimum adjustment range of 4 inches.

 SUDAS	 CIOWADOT	REVISION 4 04-21-28	
		SW-601 SHEET 1 of 2	
FIGURE 6010.601		STANDARD ROAD PLAN	
REVISIONS: Add option for 3-phase HMA casting			
<i>Paul D. Wiegand</i> BLUDDER DIRECTION		<i>David Haden</i> DESIGN METHODS ENGINEER	
CASTINGS FOR SANITARY SEWER MANHOLES			

TYPE B: PCC
Three-piece floating casting for use
in PCC paving and PCC boxouts

TYPE D: PCC
Three-piece floating casting with bolt-down cover
for use in PCC paving and PCC boxouts



TYPICAL SECTION (5)

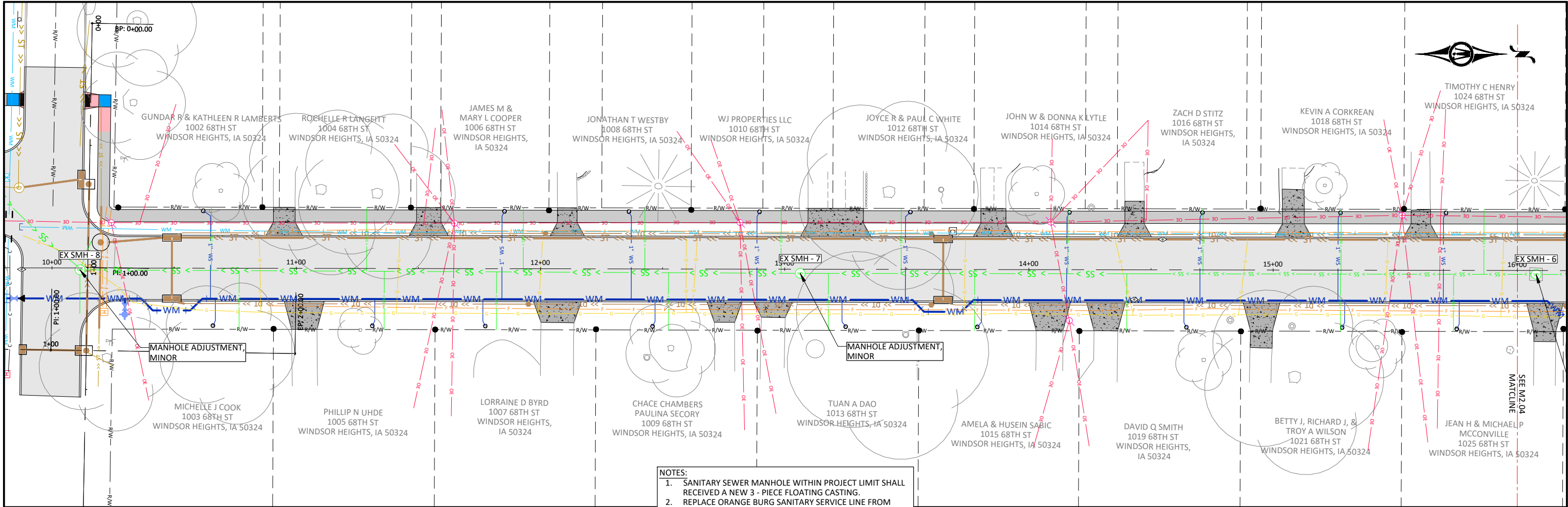
Frame Notes:
Size, spacing, and number of lugs and flanges
may vary.

Cover Notes:
Roughness pattern and text style may vary.
Minimum one concealed pickhole.

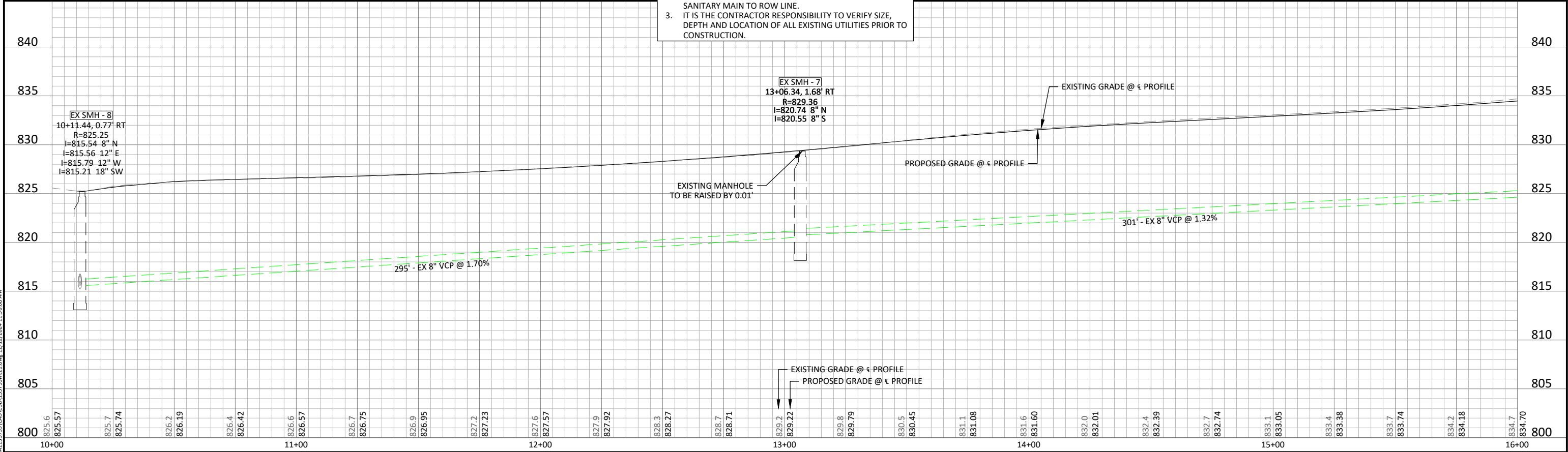
- ① Anchor the lower frame of all three-piece castings to the manhole structure. When specified in the contract documents, anchor the frame of two-piece castings to the manhole structure. If casting frame does not include anchor holes or slots, drill four 7/8 inch diameter holes, equally spaced around the frame.
- ② If specified, furnish bolt down frame and cover with four 1/2 inch minimum diameter stainless steel, hex nut, recessed cap screws. Secure cover with screws, washers, and rubber gasket seals.
- ③ Casting height varies. Minimum adjustment range of 4 inches.
- ④ Set casting at proper grade using the adjustment slots or adjustment mechanism. Remove bolts or mechanism upon completion of paving.
- ⑤ Height adjustment method may vary; two options are shown.

 SUDAS	 IOWA DOT	REVISION 4 04-21-20
		SW-601
		SHEET 2 of 2
FIGURE 6010.601		
STANDARD ROAD PLAN		
REVISIONS: Add option for 3-piece MMA casting		
		
SUSAN D. WILLIGARD		DESIGN METHOD/ENGINEER
CASTINGS FOR SANITARY SEWER MANHOLES		

[illegible]



- NOTES:
1. SANITARY SEWER MANHOLE WITHIN PROJECT LIMIT SHALL RECEIVED A NEW 3 - PIECE FLOATING CASTING.
 2. REPLACE ORANGE BURG SANITARY SERVICE LINE FROM SANITARY MAIN TO ROW LINE.
 3. IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY SIZE, DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.



0 20 40

HORZ. SCALE FEET

0 5 10

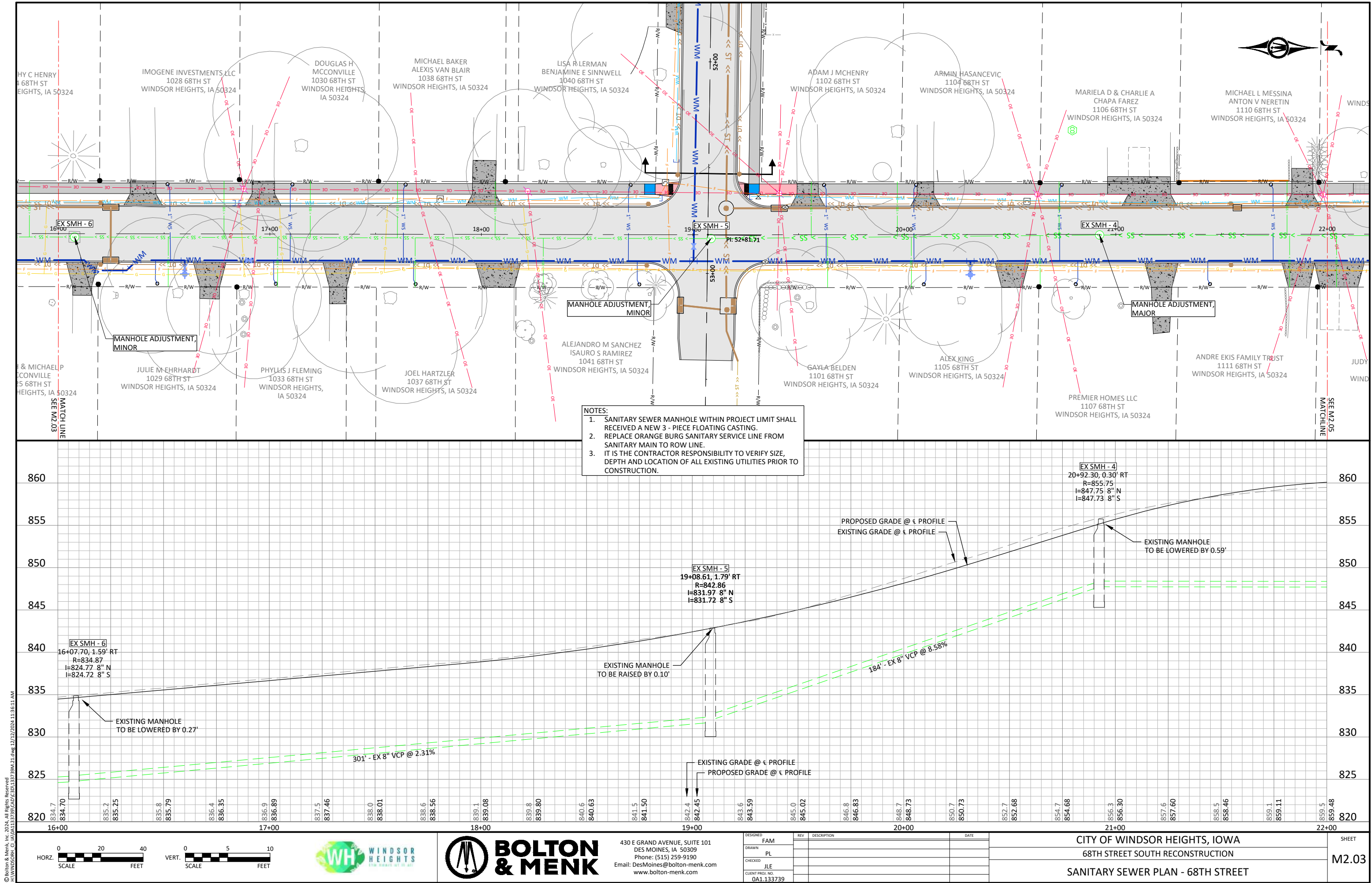
VERT. SCALE FEET

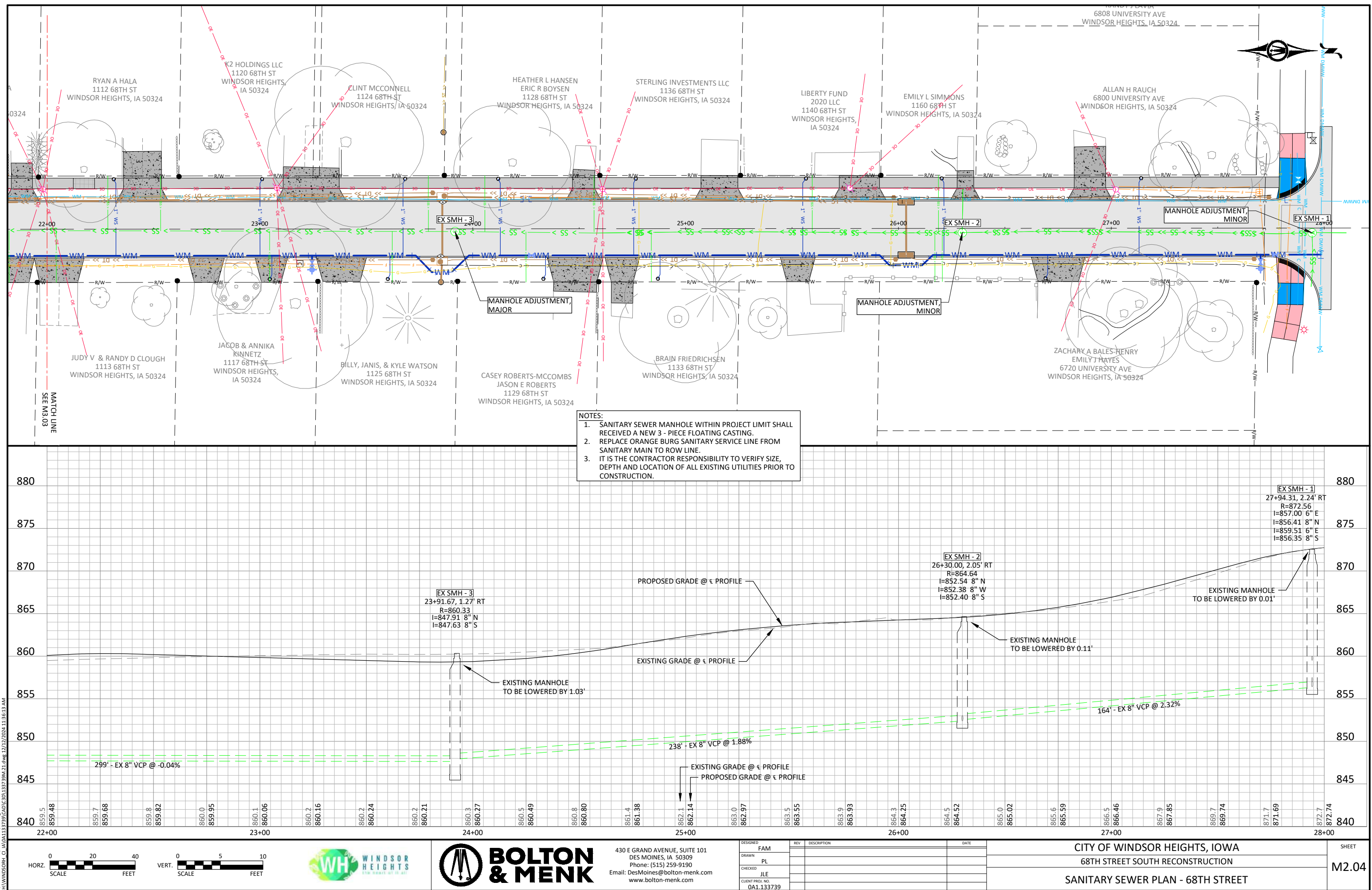
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CLIENT PROJ. NO.	0A1.133739

CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
SANITARY SEWER PLAN - 68TH STREET

SHEET
M2.02





WATER MAIN CONSTRUCTION NOTES:

1. SHOP DRAWING REVIEW: DMWW TO REVIEW SHOP DRAWING SUBMITTALS FOR ALL MATERIAL RELATED TO WATER MAIN WORK AS SOON AS PRACTICABLE AFTER NOTICE TO PROCEED AND PRIOR TO PURCHASE. DMWW REQUIRES A MINIMUM OF 15 DAYS FOR REVIEW. CONTRACTOR TO SUBMIT SHOP DRAWINGS ELECTRONICALLY TO:

CARLA SCHUMACHER

CSCHUMACHER@DMWW.COM

OFFICE: (515) 323-6227
2. INSPECTION: A DMWW'S ENGINEERING TECHNICIAN WILL BE ASSIGNED AS AN INSPECTOR FOR THE PROJECT TO INSPECT MATERIALS USED AND WORK DONE FOR CONFORMANCE TO PLANS AND SPECIFICATIONS.
3. PAYMENT: DMWW ENGINEERING TECHNICIAN WILL COORDINATE WITH CITY INSPECTOR FOR INSTALLED QUANTITIES FOR PAY APPLICATIONS.
4. CHANGE ORDERS: CONTRACTOR, DMWW INSPECTOR, AND CITY INSPECTOR TO AGREE ON COMPENSATION **PRIOR** TO COMMENCING ANY WORK THAT IS NOT COVERED BY THE CONTRACT FOR WATER MAIN ITEMS. **WORK PERFORMED PRIOR TO AN AGREEMENT WILL NOT BE CONSIDERED FOR COMPENSATION.**
5. START OF WORK NOTIFICATION: CONTRACTOR TO NOTIFY DMWW ENGINEERING TECHNICIAN 48 HOURS PRIOR TO START OF WATER MAIN RELATED CONSTRUCTION ACTIVITY FOR EACH STAGE OF CONSTRUCTION INVOLVING WATER MAIN INSTALLATION.
6. WATER SHUTDOWNS:

6.1. CONTRACTOR TO NOTIFY CUSTOMERS A MINIMUM OF 24 HOURS IN ADVANCE OF WATER SHUTDOWNS. DMWW WILL PROVIDE DOOR TAGS TO CONTRACTOR. DMWW TO ASSIST CONTRACTOR IN IDENTIFICATION OF SERVICES REQUIRING CUSTOMER NOTIFICATIONS. NOTIFICATIONS ARE INCIDENTAL TO WATER SERVICE BID ITEM.

6.2. CONTRACTOR REQUIRED TO NOTIFY BUSINESS CUSTOMERS A MINIMUM OF 72 HOURS IN ADVANCE OF WATER SHUTDOWNS. COORDINATE WITH DMWW PERSONNEL FOR SCHEDULING AND NOTIFICATIONS. NOTIFICATIONS ARE INCIDENTAL TO WATER SERVICE BID ITEM.

6.3. WATER MAIN SHUTDOWNS MAY NEED TO BE COMPLETED OUTSIDE OF NORMAL WORKING HOURS (7 AM TO 7 PM) TO MINIMIZE IMPACT ON AFFECTED CUSTOMERS. NO ADDITIONAL COMPENSATION WILL BE PAID FOR WORK OUTSIDE NORMAL WORKING HOURS.
7. CONNECTION TO EXISTING WATER MAINS: CONTRACTOR TO NOTIFY DMWW ENGINEERING TECHNICIAN A MINIMUM OF 72 HOURS BEFORE BEGINNING WORK THAT REQUIRES ISOLATION OF A PORTION OF THE DISTRIBUTION SYSTEM.
8. VALVE AND HYDRANT OPERATION: ALL VALVES AND HYDRANTS TO BE OPERATED BY DMWW PERSONNEL ONLY. CONTRACTOR TO COORDINATE WITH ENGINEERING TECHNICIAN 72 HOURS IN ADVANCE OF REQUIRED OPERATION.
9. DISINFECTION:

9.1. WATER MAIN RELOCATION - PRESSURE TEST AND CHLORINATE IN ACCORDANCE WITH SPECIAL PROVISIONS 026740 AND 026750. ALLOW A MINIMUM OF 3 DAYS FOR EACH SECTION TO BE TESTED. AS DESIGNED THERE ARE 3 SECTIONS.

9.2. SHORT STRETCHES OF WATER MAIN AT CONNECTION POINTS MAY BE DISINFECTED BY SWAB METHOD ONLY WHEN THE DMWW ENGINEERING TECHNICIAN IS ON SITE.
10. TAPS ON WATER MAIN:

10.1. CONTRACTOR TO SCHEDULE ALL TAPS WITH DMWW CUSTOMER SERVICE BY CALLING DMWW CUSTOMER SERVICE 24 HOURS PRIOR TO TAP AT 515-283-8700. TAPS INCLUDE:

10.1.1. 1" CHLORINATION TAPS

10.1.2. 1" AND 2" WATER SERVICE TRANSFER TAPS

10.2. TAPPING SLEEVES & VALVES ARE SCHEDULED BY DMWW ENGINEERING TECHNICIAN.

10.3. CONTRACTOR SHALL HAVE EXCAVATION PREPARED AND PROPERLY SHORED IN ADVANCE OF SCHEDULED TAP IN ACCORDANCE WITH DMWW RULES AND REGULATIONS LOCATED AT WWW.DMWW.COM AND OSHA REQUIREMENTS.
11. WATER MAIN SPECIFIC QUESTIONS OR COMPLAINTS FROM CUSTOMERS ARE TO BE REFERRED TO DMWW'S ENGINEERING TECHNICIAN AND CITY INSPECTOR IMMEDIATELY.
12. TRENCHES WILL NOT BE LEFT OPEN WHEN CONTRACTOR IS NOT WORKING. PLACE WATERTIGHT BULKHEADS ON NEW MAIN.
13. TRAFFIC CONTROL FOR THE PROJECT WILL REQUIRE CONSIDERATION OF WATER MAIN CONSTRUCTION REQUIREMENTS, INCLUDING ABANDONMENT OF EXISTING WATER MAIN AND REMOVAL OF HYDRANTS AND VALVE BOXES THAT MAY BE IN THE WAY OF NEW PAVING OR STRUCTURES.
14. PREVENT ANY DIRT OR FOREIGN MATERIAL FROM ENTERING THE NEW MAIN BY INSTALLING TEMPORARY WATER TIGHT PLUG OR CAP ON END OF THE PIPE DURING ANY STOPPAGE OR INSTALLATION.

C900 PVC & CL52 DIP Restrained Joint (RJ) Table									
Nominal Pipe Diameter (in)	Pipe Material**	Minimum Restrained Length (ft)*							
		Horizontal & Vertical (Up) Bend				Vertical (Down) Bend			Cap/Dead End
		11.25°	22.5°	45°	90°	11.25°	22.5°	45°	
16	PVC	7	14	29	70	19	39	80	147
12	PVC	6	11	23	55	15	30	62	113
8	PVC	4	8	16	39	10	21	44	80
16	DIP	7	14	28	70	17	35	73	178
12	DIP	5	10	21	50	14	28	28	139
8	DIP	4	8	16	38	10	19	40	97
*Use restrained joints on all pipe joints that fall within the lengths above on both sides of the fitting indicated.									
**Ductile Iron Pipe (DIP) is assumed to be polyethylene encased									
***This table is based on the following assumptions:									
	Soil Type:	ML							
	Factor of Safety:	2							
	Min. Bury Depth:	5							
	Test Pressure:	150							
	Trench Condition:	Type 3							

WATER MAIN FITTING SCHEDULE 68TH ST						
For Information Only						
Item No.	Description	Unit	Unit			
			Weight	Estimated	Total	As Built
			(lb)	Quantity	Weight	Total
1	6" SOLID SLEEVE	EACH	33	2	66	
2	6" CAP	EACH	15	4	60	
3	6"x6" TEE	EACH	56	1	56	
4	8" CAP	EACH	22	2	44	
4	8" 11.25 BEND	EACH	42	2	84	
5	8" 22.50 BEND	EACH	46	1	46	
6	8" 45 BEND	EACH	46	26	1196	
7	8"x6" REDUCER	EACH	36	1	36	
8	8"x6" TEE	EACH	72	5	360	
9	8"x8" TEE	EACH	86	1	86	
10	10"x8" TEE	EACH	105	1	105	
TOTAL WATER MAIN FITTINGS (LB.)					2139	
NOTES:						
UNIT WEIGHT MEASUREMENT IS PER AWWA C153 - DUCTILE IRON COMPACT FITTINGS.						

WATERMAIN FITTING TABLE						
ITEM	STATION	STREET	SIDE (L/R)	TYPE	SIZE	REMARKS
1	9+81.47	SCHOOL ST	12.50 R	MJ X AJ TEE	6"x6"	
2	9+82.07	SCHOOL ST	11.89 L	SOLID SLEEVE	6"	
3	9+82.43	SCHOOL ST	21.88 L	SOLID SLEEVE	6"	
4	9+84.47	SCHOOL ST	12.50 R	VALVE	6"	
5	9+86.60	SCHOOL ST	16.81 L	CAP	6"	
6	9+86.24	SCHOOL ST	12.50 R	REDUCER	8"x6"	
8	9+90.60	SCHOOL ST	12.50 R	45° BEND	8"	VERTICAL
9	9+98.58	SCHOOL ST	12.50 R	45° BEND	8"	HORIZONTAL
10	10+19.52	SCHOOL ST	12.50 R	45° BEND	8"	VERTICAL
11	10+24.52	SCHOOL ST	12.50 R	45° BEND	8"	HORIZONTAL
12	10+29.92	68TH ST	12.50 R	MJ X MJ TEE	8"x6"	PART OF HYDRANT ASSEMBLY
13	10+36.56	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
14	10+41.24	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
15	10+56.57	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
16	10+61.56	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
17	13+52.37	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
18	13+57.06	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
19	13+72.38	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
20	13+77.37	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
21	16+12.28	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
22	16+16.96	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
23	16+32.29	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
24	16+37.28	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
25	16+59.80	68TH ST	12.50 R	MJ X MJ TEE	8"x6"	PART OF HYDRANT ASSEMBLY
26	16+83.00	68TH ST	14.66 L	CAP	8"	
27	16+86.00	68TH ST	14.65 L	VALVE & CAP	8" & 4"	8" TEMPORARY CAP & 4 " VALVE
28	16+89.99	68TH ST	12.50 R	VALVE & CAP	8" & 4"	8" TEMPORARY CAP & 4 " VALVE
29	18+84.82	68TH ST	17.24 L	CAP	6"	
30	49+96.47	MOTT AVE	5.48 R	SOLID SLEEVE	8"	
31	50+05.98	MOTT AVE	15.06 R	CAP	6"	
32	52+46.97	MOTT AVE	15.36 R	CAP	6"	
33	19+00.31	68TH ST	12.00 R	MJ X AJ TEE	8"x8"	
34	19+00.42	68TH ST	5.51 R	VALVE	8"	
35	19+20.78	68TH ST	12.50 R	45° BEND	8"	VERTICAL
36	19+27.51	68TH ST	17.65 L	CAP	6"	
37	19+30.16	68TH ST	12.50 R	45° BEND	8"	VERTICAL
38	19+50.16	68TH ST	12.50 R	22.5° BEND	8"	VERTICAL
39	20+31.22	68TH ST	12.50 R	MJ X MJ TEE	8"x6"	PART OF HYDRANT ASSEMBLY
40	21+50.14	68TH ST	12.50 R	11.25° BEND	8"	VERTICAL
41	23+24.49	68TH ST	12.50 R	MJ X MJ TEE	8"x6"	PART OF HYDRANT ASSEMBLY
42	23+73.18	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
43	23+80.73	68TH ST	20.33 R	45° BEND	8"	HORIZONTAL
44	23+90.06	68TH ST	20.33 R	45° BEND	8"	HORIZONTAL
45	23+98.18	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
46	24+23.08	68TH ST	13.93 L	CAP	8"	
47	24+27.59	68TH ST	13.97 L	VALVE & CAP	8" & 4"	TEMPORARY CAP & 4 " VALVE
48	24+27.59	68TH ST	12.50 R	VALVE & CAP	8" & 4"	TEMPORARY CAP & 4 " VALVE
49	25+91.11	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
50	25+98.76	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
51	26+11.09	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
52	26+16.11	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
52	27+70.09	68TH ST	12.50 R	MJ X MJ TEE	8"x6"	PART OF HYDRANT ASSEMBLY
53	27+77.14	68TH ST	12.00 R	VALVE	8"	
54	27+81.55	68TH ST	13.18 L	CAP	6"	
55	27+91.67	68TH ST	12.00 R	11.25 BEND	8"	
56	27+98.43	68TH ST	12.00 R	MJ X AJ TEE	10"x8"	

WATER MAIN FITTING SCHEDULE MOTT AVE						
For Information Only						
Item No.	Description	Unit	Unit			
			Weight	Estimated	Total	As Built
			(lb)	Quantity	Weight	Total
1	6" CAP	EACH	15	2	30	
2	8" SOLID SLEEVE	EACH	46	1	46	
TOTAL WATER MAIN FITTINGS (LB.)					76	
NOTES:						
UNIT WEIGHT MEASUREMENT IS PER AWWA C153 - DUCTILE IRON COMPACT FITTINGS.						



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www.bolton-menk.com

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DRAWN	PL			
CHECKED	JLE			
CLIENT PROJ. NO.	0A1.133739			

CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

WATER MAIN GENERAL NOTES

SHEET

MWM.01

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WATER SERVICE SCHEDULE						
EXISTING SERVICE CONNECTION INFORMATION						
SHEET	ADDRESS	STREET TAPPED	NAME	SERVICE SIZE	MATERIAL TYPE	CONNECTION TYPE
MWM.04	1002 68TH ST	68TH ST	GUNDAR & KATHLEEN LAMBERTS		UNKNOWN	
MWM.04	1003 68TH ST	68TH ST	MICHELLE J COOK		UNKNOWN	
MWM.04	1004 68TH ST	68TH ST	ROCHEELE R LANGFITT		UNKNOWN	
MWM.04	1005 68TH ST	68TH ST	PHILLIP N UHDE		UNKNOWN	
MWM.04	1006 68TH ST	68TH ST	JAMES M & MARY L COOPER		UNKNOWN	
MWM.04	1007 68TH ST	68TH ST	LORRAINE D BYRD		UNKNOWN	
MWM.04	1008 68TH ST	68TH ST	JONATHAN T WESTBOY		UNKNOWN	
MWM.04	1009 68TH ST	68TH ST	CHACE CHAMBERS PAULINA SECORY		UNKNOWN	
MWM.04	1010 68TH ST	68TH ST	WJ PROPERTIES LLC		UNKNOWN	
MWM.04	1012 68TH ST	68TH ST	JOYCE R & PAUL C WHITE		UNKNOWN	
MWM.04	1013 68TH ST	68TH ST	TAUN A DAO		UNKNOWN	
MWM.04	1014 68TH ST	68TH ST	JOHN & DONNA K LYTLE		UNKNOWN	
MWM.04	1015 68TH ST	68TH ST	AMELA & HUSEN SABIC		UNKNOWN	
MWM.05	1016 68TH ST	68TH ST	ZACH D STITZ		UNKNOWN	
MWM.05	1018 68TH ST	68TH ST	KEVIN A CORKREAN		UNKNOWN	
MWM.05	1019 68TH ST	68TH ST	DAVID Q SMITH		UNKNOWN	
MWM.05	1021 68TH ST	68TH ST	BETTY J, RICAHRD J , & TROY A WILSON		UNKNOWN	
MWM.05	1024 68TH ST	68TH ST	TIMOTHY CHENRY		SUSPECT LEAD	
MWM.05	1025 68TH ST	68TH ST	JEAN H & MICHEAL P MCCONVILLE		UNKNOWN	
MWM.05	1028 68TH ST	68TH ST	IMOGENE INVESTMENTS LLC		SUSPECT LEAD	
MWM.05	1029 68TH ST	68TH ST	JULIE M EHRHARDT		UNKNOWN	
MWM.05	1030 68TH ST	68TH ST	DOUGLASH MCCONVILLE		SUSPECT LEAD	
MWM.05	1033 68TH ST	68TH ST	PHYLLIS J FLEMING		UNKNOWN	
MWM.05	1037 68TH ST	68TH ST	JEOL HARZLER		UNKNOWN	
MWM.05	1038 68TH ST	68TH ST	MICHEAL BAKER ALEXIS VAN BLAIR		UNKNOWN	
MWM.05	1040 68TH ST	68TH ST	LISA R LERMAN		SUSPECT LEAD	
MWM.05	1041 68TH ST	68TH ST	ALEJANDRO M SANCHEZ & ISAURO S RAMIREZ		SUSPECT LEAD	
MWM.06	1101 68TH ST	68TH ST	GAYLA BELDEN		SUSPECT LEAD	
MWM.06	1102 68TH ST	68TH ST	ADAM J MCHENRY		SUSPECT LEAD	
MWM.06	1104 68TH ST	68TH ST	ARMIN HASANCEVIC		UNKNOWN	
MWM.06	1105 68TH ST	68TH ST	ALEX KING		UNKNOWN	
MWM.06	1106 68TH ST	68TH ST	MARIELA & CHARLIE CHAPA FAREZ		UNKNOWN	
MWM.06	1107 68TH ST	68TH ST	PREMIR HOMES LLC		UNKNOWN	
MWM.06	1110 68TH ST	68TH ST	MICHEAL L MESSINA ANTON NERETIN		SUSPECT LEAD	
MWM.06	1111 68TH ST	68TH ST	ANDRE EKIS FAMILY TRUST		SUSPECT LEAD	
MWM.06	1112 68TH ST	68TH ST	RYAN A HALA		UNKNOWN	
MWM.06	1113 68TH ST	68TH ST	JUDY V & RANDY D CLOUGH		UNKNOWN	
MWM.06	1117 68TH ST	68TH ST	JACOB & ANNIKA		UNKNOWN	
MWM.06	1120 68TH ST	68TH ST	K2 HOLDINGS LLC		SUSPECT LEAD	
MWM.06	1124 68TH ST	68TH ST	CLINT MCCONNELL		SUSPECT LEAD	
MWM.06	1125 68TH ST	68TH ST	BILLY,JANS, & KYLE WATSON		SUSPECT LEAD	
MWM.06	1128 68TH ST	68TH ST	HEATHER L HANSEN		UNKNOWN	
MWM.06	1129 68TH ST	68TH ST	CASEY ROBERT-MCCOMBS		SUSPECT LEAD	
MWM.07	1133 68TH ST	68TH ST	BRAIN FRIEDRICHSEN		SUSPECT LEAD	
MWM.07	1136 68TH ST	68TH ST	STERLING INVERMENTS LLC		SUSPECT LEAD	
MWM.07	1140 68TH ST	68TH ST	LIBERTY FUND 2020 LLC		SUSPECT LEAD	
MWM.07	1160 68TH ST	68TH ST	EMILY L SIMMONS		SUSPECT LEAD	
MWM.07	6720 UNIVERSITY AVE	68TH ST	ZAHARY A BALES-HENRY EMILY J HAYES		UNKNOWN	
MWM.07	6800 UNIVERSITY AVE	68TH ST	ALLAN H RAUCH		SUSPECT LEAD	

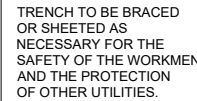


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DESIGNED	FAM	REV	DESCRIPTION	DATE
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CLIENT PROJ. NO.	0A1.133739			

CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
WATER MAIN SCHEDULE

SHEET
MWM.02

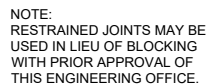


TYPICAL TRENCH SECTION
NOT TO SCALE

The diagram illustrates the three steps of applying polyethylene tape to a pipe:

- STEP 1:** A **POLYETHYLENE TUBE** (the tape) is being wrapped around a **PIPE**.
- STEP 2:** The tape is overlapped to form a braid. Labels include **PIPE**, **POLYETHYLENE TAPE**, and **POLYETHYLENE TUBE**.
- STEP 3:** The braid is completed and secured. Labels include **POLYETHYLENE TAPE**, **POLYETHYLENE TUBE**, and **PIPE**.

NOT TO SCALE

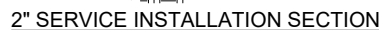


VOLUME OF GRAVITY BLOCK

NOT TO SCALE

STANDARD CONCRETE THRUST BLOCKS

NOT TO SCALE



SERVICE INSTALLATION
NOT TO SCALE

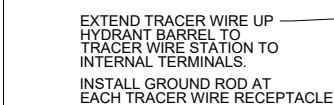
NOTE:	IRON PIPE, VALVE, FITTINGS AND HYDRANT (BURIED PORTION) IS WRAPPED WITH POLYETHYLENE ENCASEMENT MATERIAL PER DES MOINES WATER WORKS STANDARDS. TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.
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NOT TO SCALE



NOT TO SCALE

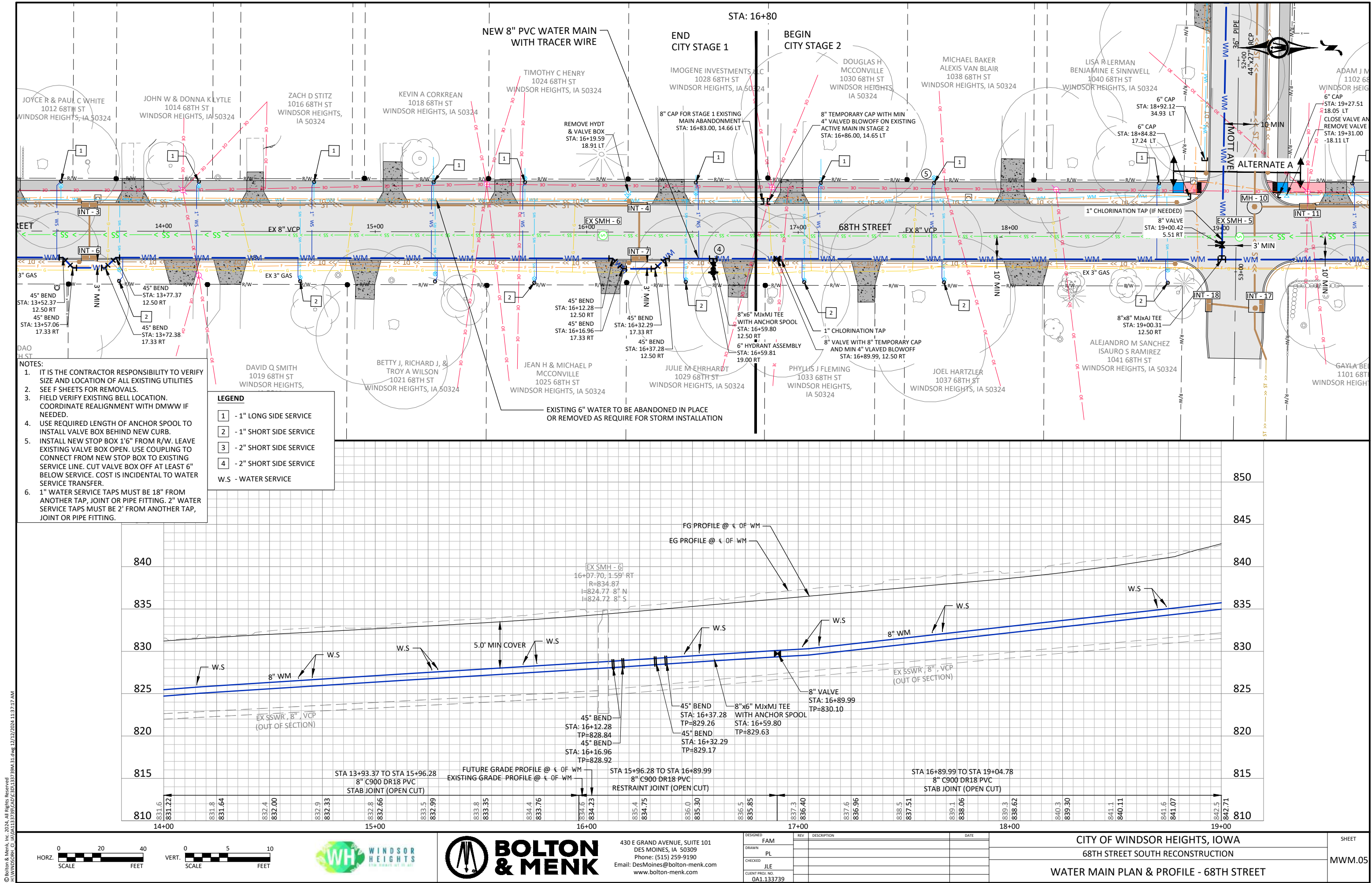


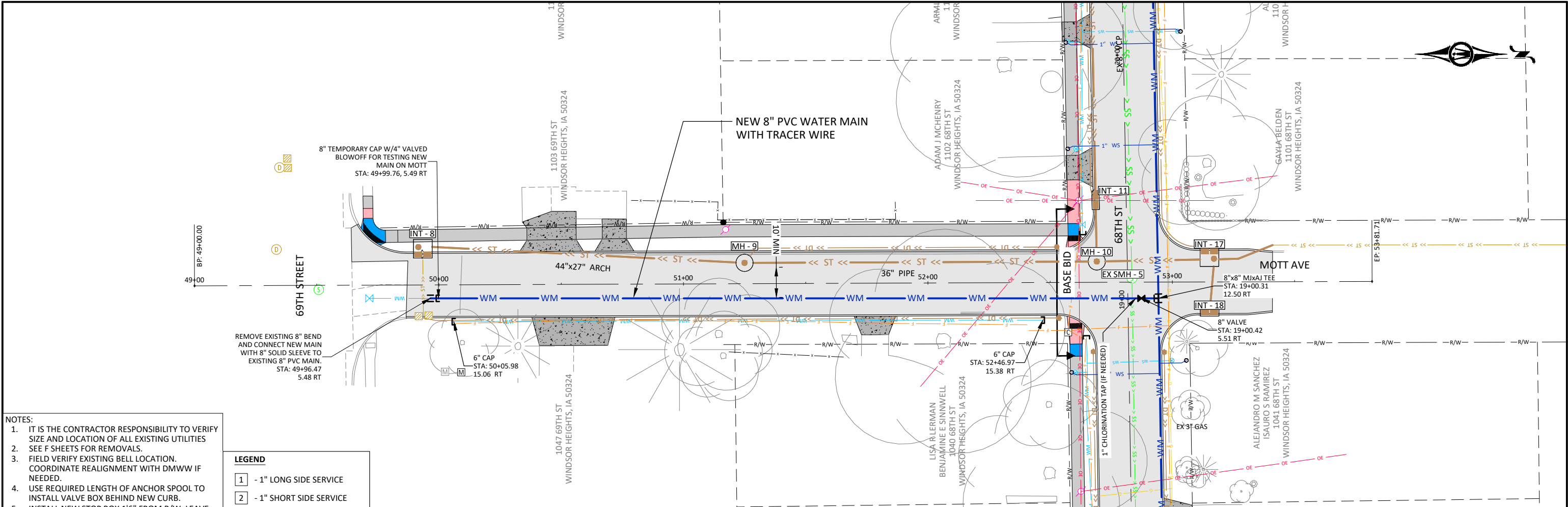
NOTE:

1. CARE MUST BE EXERCISED TO PRESERVE THE INTEGRITY OF THE INSULATION ON THE TRACER WIRE.
2. TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE BUT IT IS NOT REQUIRED.



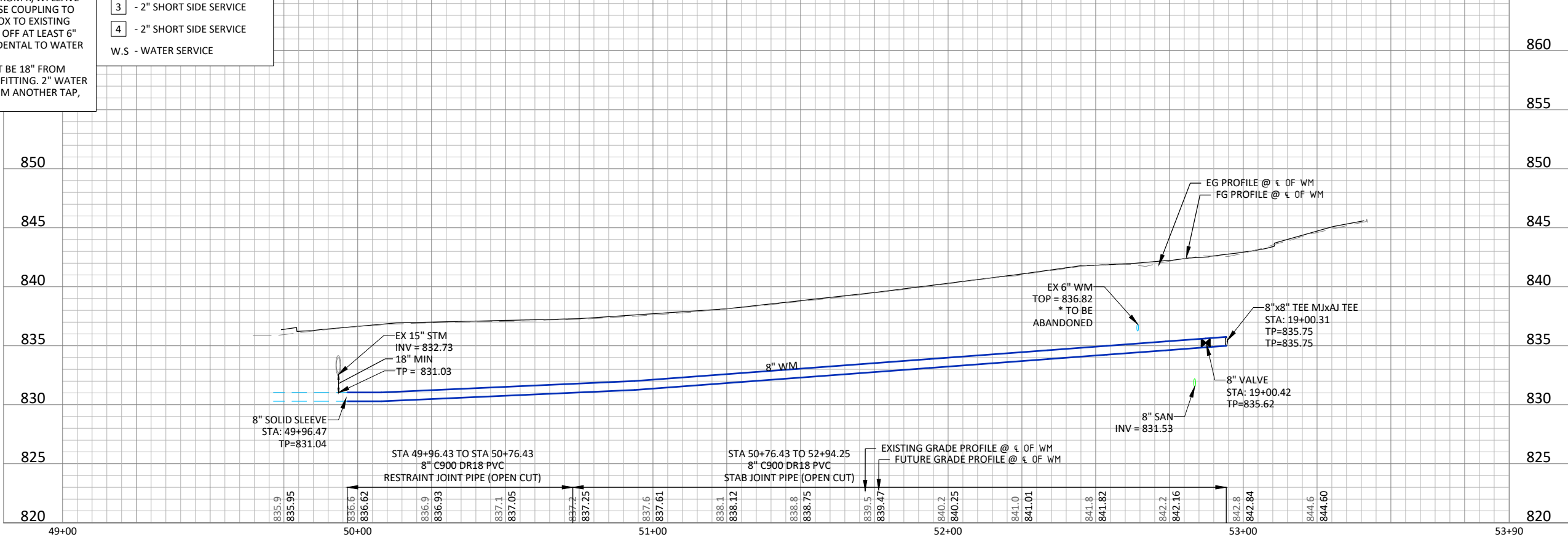
NOT TO SCALE



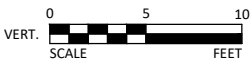


- NOTES:
1. IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY SIZE AND LOCATION OF ALL EXISTING UTILITIES SEE F SHEETS FOR REMOVALS.
 2. FIELD VERIFY EXISTING BELL LOCATION. COORDINATE REALIGNMENT WITH DMWW IF NEEDED.
 3. USE REQUIRED LENGTH OF ANCHOR SPOOL TO INSTALL VALVE BOX BEHIND NEW CURB.
 4. INSTALL NEW STOP BOX 1'6" FROM R/W. LEAVE EXISTING VALVE BOX OPEN. USE COUPLING TO CONNECT FROM NEW STOP BOX TO EXISTING SERVICE LINE. CUT VALVE BOX OFF AT LEAST 6" BELOW SERVICE. COST IS INCIDENTAL TO WATER SERVICE TRANSFER.
 5. 1" WATER SERVICE TAPS MUST BE 18" FROM ANOTHER TAP, JOINT OR PIPE FITTING. 2" WATER SERVICE TAPS MUST BE 2' FROM ANOTHER TAP, JOINT OR PIPE FITTING.

- LEGEND
- 1 - 1" LONG SIDE SERVICE
 - 2 - 1" SHORT SIDE SERVICE
 - 3 - 2" SHORT SIDE SERVICE
 - 4 - 2" SHORT SIDE SERVICE
 - W.S - WATER SERVICE



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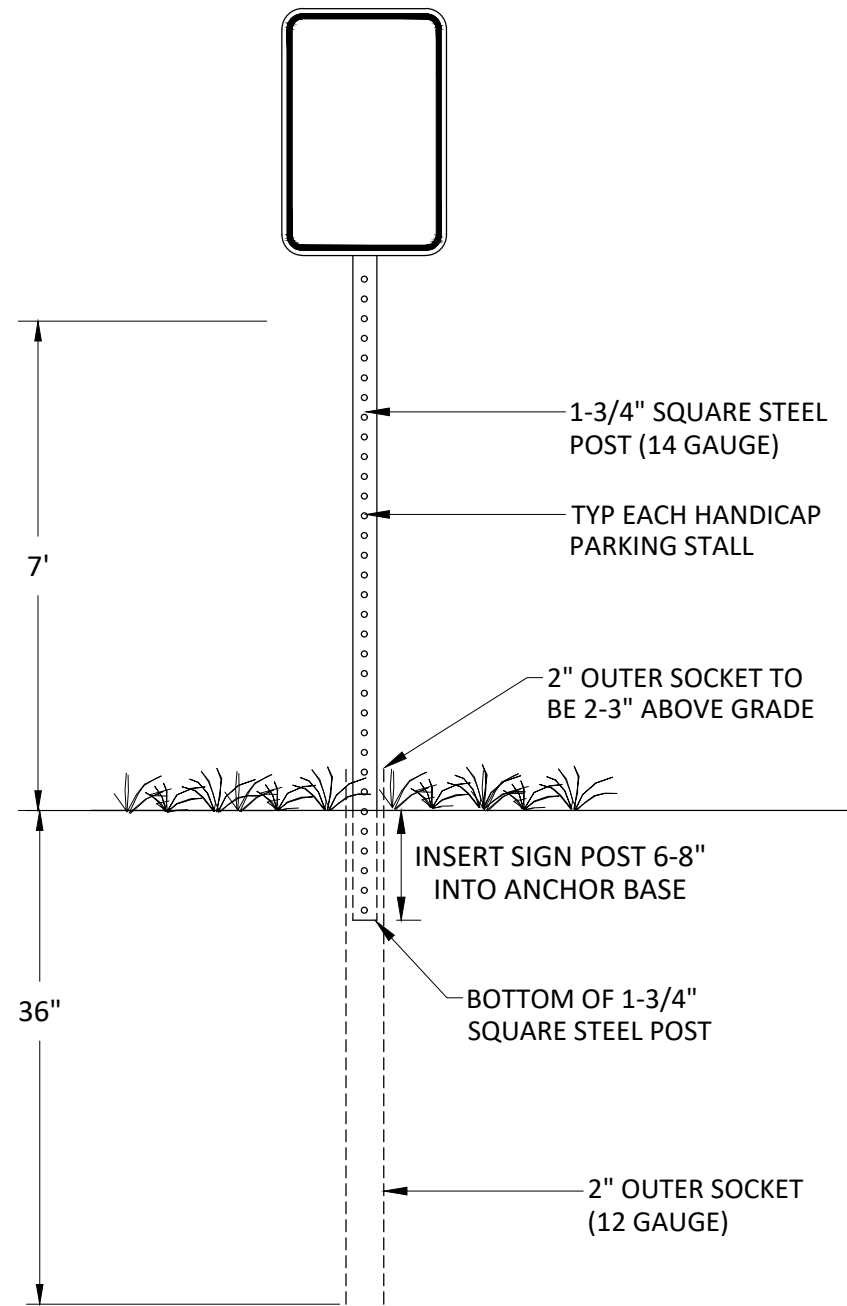


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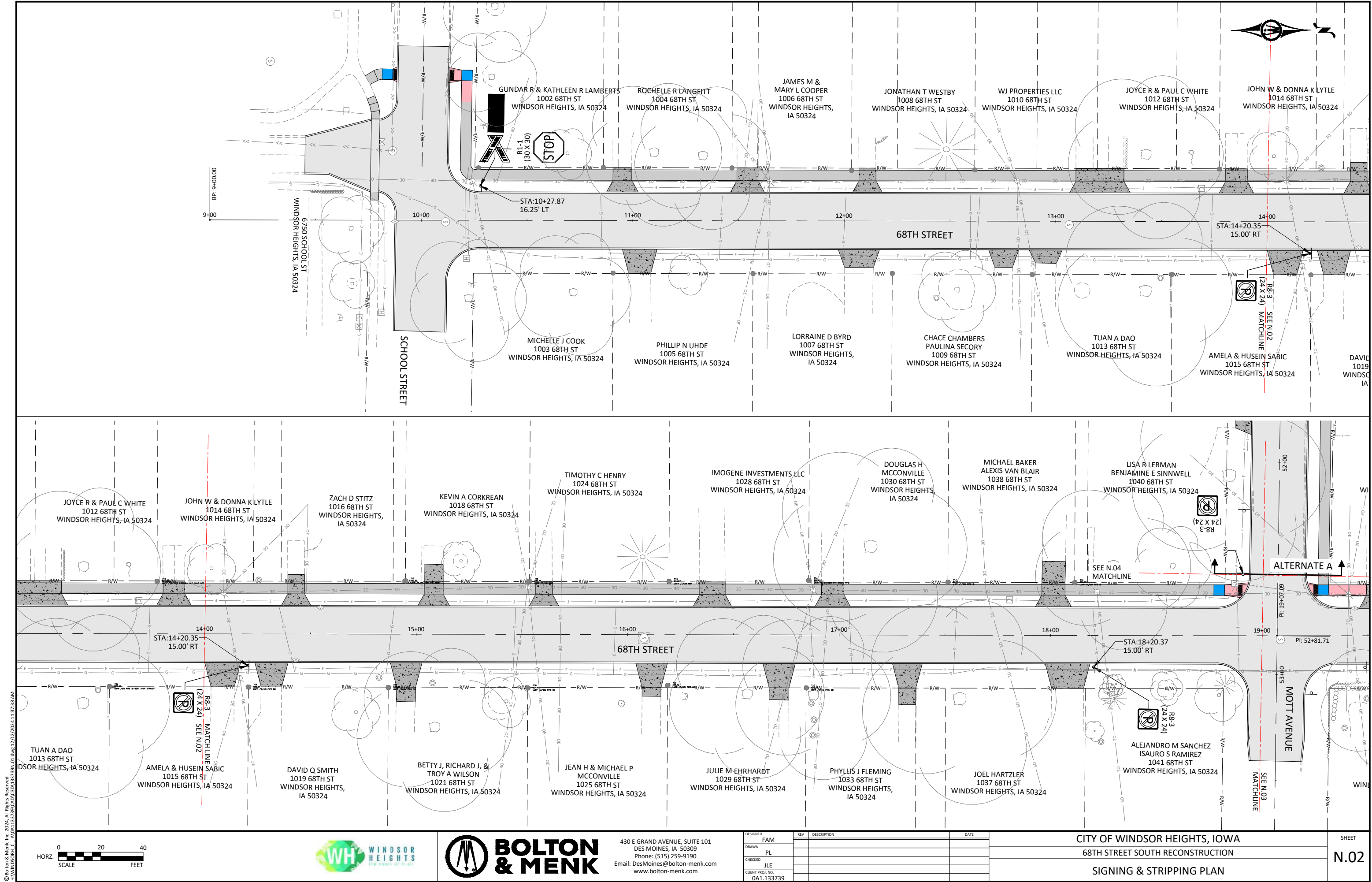
CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
WATERMAIN PLAN - MOTT AVE

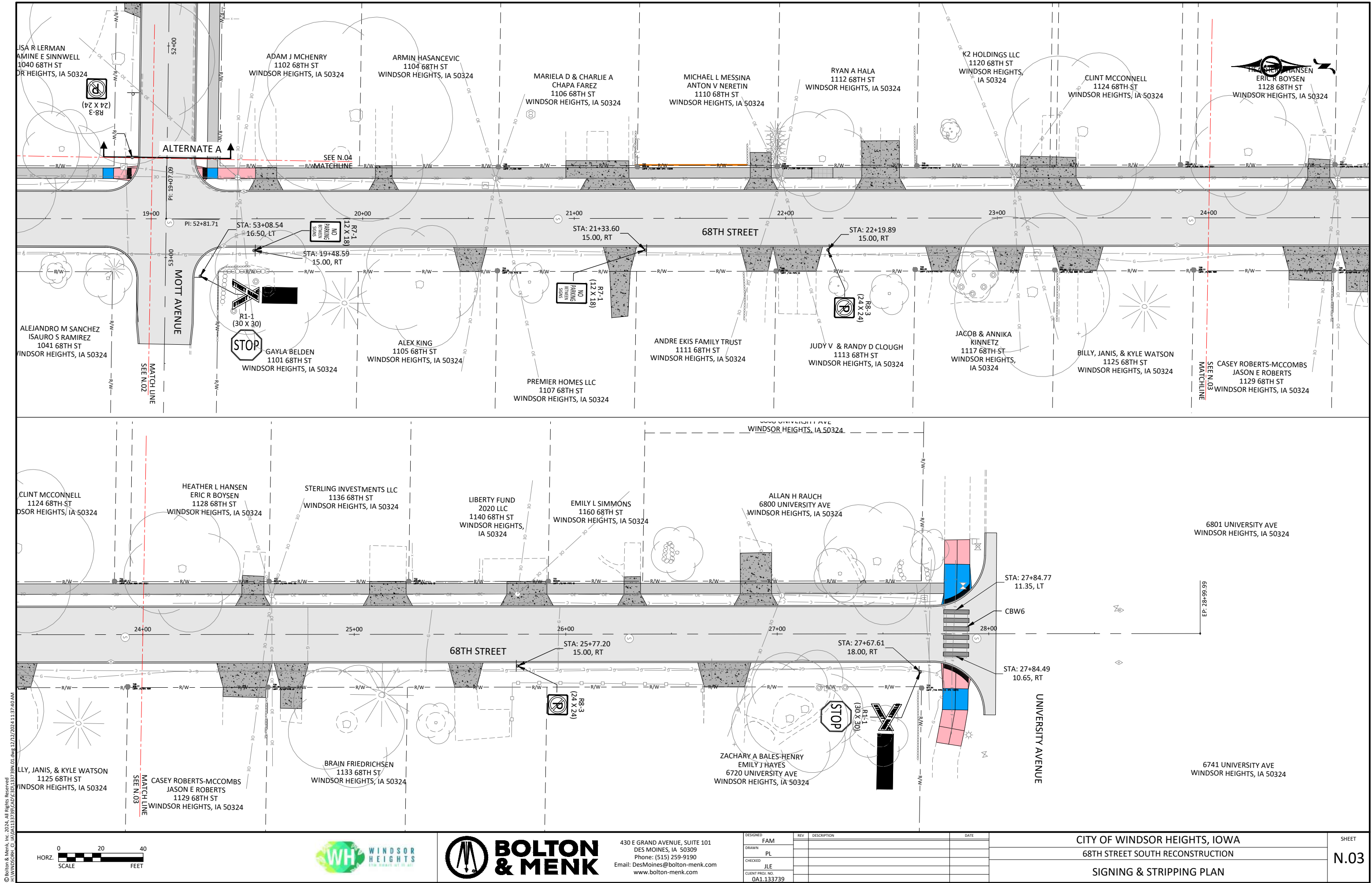
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1 SIGN POST INSTALLATION DETAILS

SIGNS TABULATION					
ITEM NO.	STREET	STATION	SIGN TYPE	SIGN SIZE	COMMENT
1	68TH ST	10+27.87	R1-1	30X30	NEW WITH POST
2	68TH ST	14+20.35	R8-3	24X24	NEW WITH POST
3	68TH ST	18+20.37	R8-3	24X24	NEW WITH POST
4	68TH ST	19+48.59	R7-1	12X18	SALVAGE RE-INSTALL
5	68TH ST	21+33.60	R7-1	12X18	SALVAGE RE-INSTALL
6	68TH ST	22+19.89	R8-3	24X24	NEW WITH POST
7	68TH ST	25+77.20	R8-3	24X24	NEW WITH POST
8	68TH ST	27+67.61	R1-1	30X30	SALVAGE RE-INSTALL
9	MOTT AVE	49+83.90	R1-1	30X30	SALVAGE RE-INSTALL
10	MOTT AVE	52+22.90	R7-11	12X18	SALVAGE RE-INSTALL
11	MOTT AVE	52+52.90	R1-1 R8-3	30X30 24X24	SALVAGE RE-INSTALL
12	MOTT AVE	53+08.54	R1-1	30X30	SALVAGE RE-INSTALL





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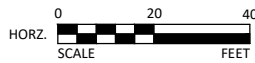
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
SIGNING & STRIPPING PLAN

SHEET
N.03

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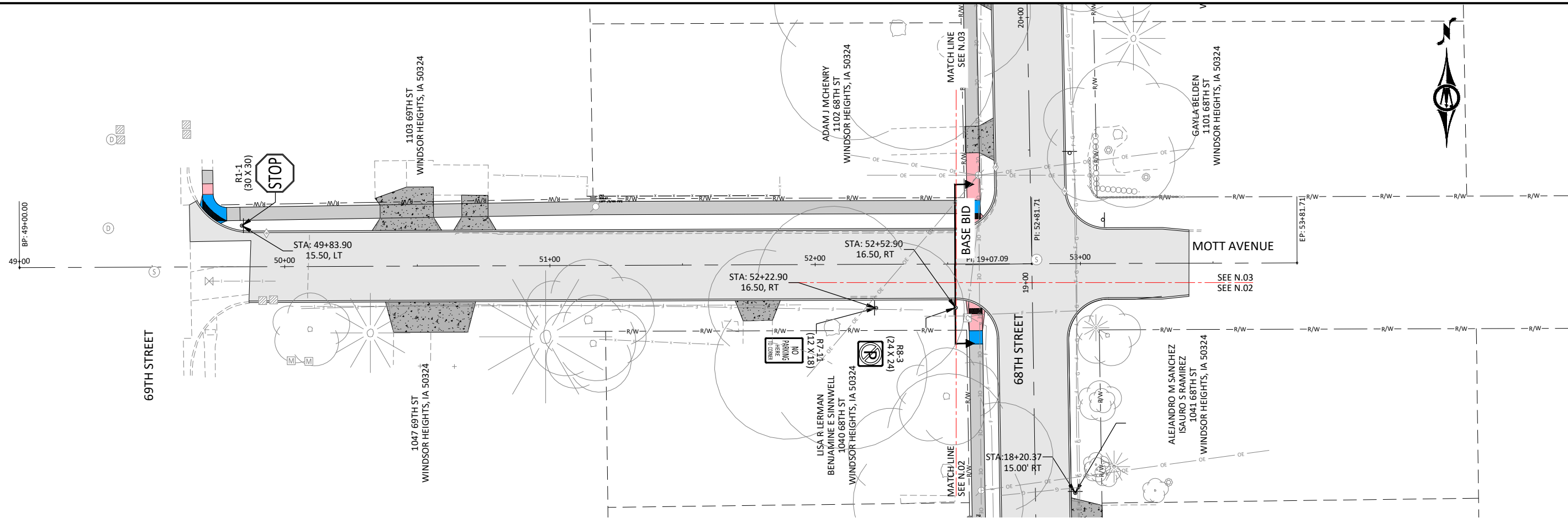


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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
SIGNING & STRIPPING PLAN

SHEET
N.04



STORM WATER POLLUTION PREVENTION PLAN

THIS PROJECT IS REGULATED BY THE REQUIREMENTS OF THE IOWA DEPARTMENT OF NATURAL RESOURCES (DNR) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. 2 OR AN IOWA DEPARTMENT OF NATURAL RESOURCES (DNR) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) INDIVIDUAL STORM WATER PERMIT. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF THIS PERMIT AND THE POLLUTION PREVENTION PLAN (PPP).

THIS BASE PPP INCLUDES INFORMATION ON ROLES AND RESPONSIBILITIES, PROJECT SITE DESCRIPTION, CONTROLS, MAINTENANCE PROCEDURES, INSPECTION REQUIREMENTS, NON-STORM WATER CONTROLS, POTENTIAL SOURCES OF OFF RIGHT-OF-WAY POLLUTION, AND DEFINITIONS. THIS PLAN REFERENCES OTHER DOCUMENTS RATHER THAN REPEATING THE INFORMATION CONTAINED IN THE DOCUMENTS. A COPY OF THIS BASE POLLUTION PREVENTION PLAN, AMENDED AS NEEDED DURING CONSTRUCTION, WILL BE READILY AVAILABLE FOR REVIEW.

ALL CONTRACTORS SHALL CONDUCT THEIR OPERATIONS IN A MANNER THAT CONTROLS POLLUTANTS, MINIMIZES EROSION, AND PREVENTS SEDIMENTS FROM ENTERING WATERS OF THE STATE AND LEAVING THE HIGHWAY RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AND IMPLEMENTATION OF THE PPP FOR THEIR ENTIRE CONTRACT. THIS RESPONSIBILITY SHALL BE FURTHER SHARED WITH SUBCONTRACTORS WHOSE WORK IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS PPP.

I.. ROLES AND RESPONSIBILITIES

A. DESIGNER:

- 1. PREPARES BASE PPP INCLUDED IN THE PROJECT PLAN.
- 2. PREPARES NOTICE OF INTENT (NOI) SUBMITTED TO IOWA DNR.
- 3. IS SIGNATURE AUTHORITY ON THE BASE PPP. IF CONSULTANT DESIGNED, SIGNATURE FROM CONTRACTING AUTHORITY IS ALSO REQUIRED.

B. CONTRACTOR:

- 1. SIGNS A CO-PERMITTEE CERTIFICATION STATEMENT ADHERING TO THE REQUIREMENTS OF THE NPDES PERMIT AND THIS PPP. ALL CO-PERMITTEES ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE IOWA ADMINISTRATIVE CODE TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PPP.
- 2. DESIGNATES A WATER POLLUTION CONTROL MANAGER (WPCM), WHO HAS THE DUTIES AND RESPONSIBILITIES AS DEFINED IN SECTION 2602 OF THE STANDARD SPECIFICATIONS.
- 3. SUBMITS AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND ECIP UPDATES ACCORDING TO SECTION 2602 OF THE STANDARD SPECIFICATIONS.
- 4. INSTALLS AND MAINTAINS APPROPRIATE CONTROLS. THIS WORK MAY BE SUBCONTRACTED AS DOCUMENTED THROUGH SUBCONTRACTOR REQUEST FORM (FORM 830231).
- 5. SUPERVISES AND IMPLEMENTS GOOD HOUSEKEEPING PRACTICES ACCORDING TO PARAGRAPH III, C, 2.
- 6. CONDUCTS JOINT REQUIRED INSPECTIONS OF THE SITE WITH INSPECTION STAFF. WHEN CONTRACTOR IS NOT MOBILIZED ON SITE, CONTRACTOR MAY DELEGATE THIS RESPONSIBILITY TO A TRAINED OR CERTIFIED SUBCONTRACTOR. CONTRACTING AUTHORITY ALSO MAY WAIVE JOINT INSPECTION REQUIREMENT DURING WINTER SHUTDOWN. IN BOTH CIRCUMSTANCES, WPCM (OR TRAINED OR CERTIFIED DELEGATE FROM THE CONTRACTOR) IS STILL RESPONSIBLE TO REVIEW AND SIGN INSPECTION REPORTS.
- 7. COMPLIES WITH TRAINING AND CERTIFICATION REQUIREMENTS OF SECTION 2602 OF THE STANDARD SPECIFICATIONS.
- 8. SUBMITS AMENDED PPP SITE MAP ACCORDING TO SECTION 2602 OF THE STANDARD SPECIFICATIONS.

C. SUBCONTRACTORS:

- 1. SIGN A CO-PERMITTEE CERTIFICATION STATEMENT ADHERING TO THE REQUIREMENTS OF THE NPDES PERMIT AND THIS PPP IF: RESPONSIBLE FOR SEDIMENT OR EROSION CONTROLS; INVOLVED IN LAND DISTURBING ACTIVITIES; OR PERFORMING WORK THAT IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS PPP. SUBCONTRACTED WORK ITEMS ARE IDENTIFIED IN SUBCONTRACTOR REQUEST FORMS (FORM 830231). ALL CO-PERMITTEES ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE IOWA ADMINISTRATIVE CODE TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PPP.
- 2. IMPLEMENT GOOD HOUSEKEEPING PRACTICES ACCORDING TO PARAGRAPH III, C, 2.

D. RCE/PROJECT ENGINEER:

- 1. IS PROJECT STORM WATER MANAGE.
- 2. TAKES ACTIONS NECESSARY TO ENSURE COMPLIANCE WITH STORM WATER REQUIREMENTS INCLUDING, WHERE APPROPRIATE, ISSUING STOP WORK ORDERS, AND DIRECTING ADDITIONAL INSPECTIONS AT CONSTRUCTION PROJECT SITES THAT ARE EXPERIENCING PROBLEMS WITH ACHIEVING PERMIT COMPLIANCE.
- 3. ORDERS THE TAKING OF MEASURES TO CEASE, CORRECT, PREVENT, OR MINIMIZE THE CONSEQUENCES OF NON-COMPLIANCE WITH THE STORM WATER REQUIREMENTS OF THE APPLICABLE PERMIT.
- 4. SUPERVISES ALL WORK NECESSARY TO MEET STORM WATER REQUIREMENTS AT THE PROJECT, INCLUDING WORK PERFORMED BY CONTRACTORS AND SUBCONTRACTORS.
- 5. REQUIRES EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS TO TAKE APPROPRIATE RESPONSIVE ACTION TO COMPLY WITH STORM WATER REQUIREMENTS, INCLUDING REQUIRING ANY SUCH PERSON TO CEASE OR CORRECT A VIOLATION OF STORM WATER REQUIREMENTS, AND TO ORDER OR RECOMMEND SUCH OTHER ACTIONS AS NECESSARY TO MEET STORM WATER REQUIREMENTS.
- 6. IS FAMILIAR WITH THE PROJECT PPP AND STORM WATER SITE MAP.
- 7. IS THE POINT OF CONTACT FOR THE PROJECT FOR REGULATORY OFFICIALS, INSPECTOR, CONTRACTORS, AND SUBCONTRACTORS REGARDING STORM WATER REQUIREMENTS.
- 8. IS SIGNATURE AUTHORITY ON NOTICE OF DISCONTINUATION.
- 9. MAINTAINS AN UP-TO-DATE RECORD OF CONTRACTORS, SUBCONTRACTORS, AND SUBCONTRACTED WORK ITEMS THROUGH SUBCONTRACTOR REQUEST FORMS (FORM 830231).
- 10. MAKES INFORMATION TO DETERMINE PERMIT COMPLIANCE AVAILABLE TO THE DNR UPON THEIR REQUEST.

E. INSPECTOR:

- 1. UPDATES PPP THROUGH FIELD BOOK ENTRIES AND STORM WATER SITE INSPECTION REPORTS IF THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE WHICH HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS FROM THE PROJECT.
- 2. MAKES INFORMATION TO DETERMINE PERMIT COMPLIANCE AVAILABLE TO THE DNR UPON THEIR REQUEST.
- 3. CONDUCTS JOINT REQUIRED INSPECTIONS OF THE SITE WITH THE CONTRACTOR/SUBCONTRACTOR.
- 4. COMPLETES AN INSPECTION REPORT AFTER EACH INSPECTION.
- 5. IS SIGNATURE AUTHORITY ON STORM WATER INSPECTION REPORTS.

II.. PROJECT SITE DESCRIPTION

- A. THIS POLLUTION PREVENTION PLAN (PPP) IS FOR THE RECONSTRUCTION OF 3 BLOCK OF RESIDENTAL STREETS.
- B. THIS PPP COVERS APPROXIMATELY *2.75* ACRES WITH AN ESTIMATED *2.08* ACRES BEING DISTURBED. THE PORTION OF THE PPP COVERED BY THIS CONTRACT HAS *2.08* ACRES DISTURBED.
- C. THE PPP IS LOCATED IN AN AREA OF 1 SOIL ASSOCIATIONS, TERRIL - CLARION. THE ESTIMATED WEIGHTED AVERAGE RUNOFF COEFFICIENT NUMBER FOR THIS PPP AFTER COMPLETION WILL BE *0.64*.
- D. STORM WATER SITE MAP - MULTIPLE SOURCES OF INFORMATION COMPRISE THE BASE STORM WATER SITE MAP INCLUDING:
 - 1. DRAINAGE PATTERNS - PLAN AND PROFILE SHEETS AND EROSION SHEETS (R-SHEET).
 - 2. PROPOSED SLOPES - CROSS SECTIONS.
 - 3. AREAS OF SOIL DISTURBANCE - EROSION SHEETS (R-SHEETS).
 - 4. LOCATION OF STRUCTURAL CONTROLS - IN R- SHEETS.
 - 5. LOCATIONS OF NON-STRUCTURAL CONTROLS - IN R-SHEETS.
 - 6. LOCATIONS OF STABILIZATION PRACTICES - GENERALLY WITHIN CONSTRUCTION LIMITS SHOWN ON EROSION CONTROL SHEETS (R-SHEETS).
 - 7. SURFACE WATERS (INCLUDING WETLANDS) - PROJECT LOCATION MAP AND PLAN AND PROFILE SHEETS.
 - 8. LOCATIONS WHERE STORM WATER IS DISCHARGED - M1 STORM WATER SHEETS.
- E. THE BASE STORM WATER SITE MAP IS AMENDED BY CONTRACT MODIFICATIONS AND PROGRESS PAYMENTS (FIELD BOOK ENTRIES) OF COMPLETED EROSION CONTROL WORK. ALSO, DUE TO PROJECT PHASING, EROSION AND SEDIMENT CONTROLS SHOWN ON PROJECT PLANS MAY NOT BE INSTALLED UNTIL NEEDED, BASED ON SITE CONDITIONS. FOR EXAMPLE, SILT FENCE DITCH CHECKS WILL TYPICALLY NOT BE INSTALLED UNTIL THE DITCH HAS BEEN INSTALLED. INSTALLED LOCATIONS MAY ALSO BE MODIFIED FROM TABULATION LOCATIONS BY FIELD STAFF. INSTALLED LOCATIONS WILL BE DOCUMENTED BY FIELD BOOK ENTRIES AND AMENDED PPP SITE MAP.
- F. RUNOFF FROM THIS WORK WILL FLOW INTO CITY STORM SEWER NETWORK.

III.. CONTROLS

- A. THE CONTRACTOR'S ECIP SPECIFIED IN ARTICLE 2602.03 OF THE STANDARD SPECIFICATIONS FOR ACCOMPLISHMENT OF STORM WATER CONTROLS SHOULD CLEARLY DESCRIBE THE INTENDED SEQUENCE OF MAJOR ACTIVITIES, AND FOR EACH ACTIVITY DEFINE THE CONTROL MEASURE AND THE TIMING DURING THE CONSTRUCTION PROCESS THAT THE MEASURE WILL BE IMPLEMENTED.
- B. PRESERVE VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION.
- C. SECTIONS 2601 AND 2602 OF THE STANDARD SPECIFICATIONS DEFINE REQUIREMENTS TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES. ACTUAL QUANTITIES USED AND INSTALLED LOCATIONS MAY VARY FROM THE BASE PPP AND AMENDMENT OF THE PLAN WILL BE DOCUMENTED VIA FIELD BOOK ENTRIES, AMENDED PPP SITE MAP, OR BY CONTRACT MODIFICATION. ADDITIONAL EROSION AND SEDIMENT CONTROL ITEMS MAY BE REQUIRED AS DETERMINED BY THE INSPECTOR AND/OR CONTRACTOR DURING STORM WATER SITE INSPECTIONS. IF THE WORK INVOLVED IS NOT APPLICABLE TO ANY CONTRACT ITEMS, THE WORK WILL BE PAID FOR ACCORDING TO ARTICLE 1109.03 PARAGRAPH B OF THE STANDARD SPECIFICATIONS.
 - 1. EROSION AND SEDIMENT CONTROLS
 - a. STABILIZATION PRACTICES
 - 1) SITE PLANS WILL ENSURE THAT EXISTING VEGETATION OR NATURAL BUFFERS ARE PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED.
 - 2) INITIALIZE STABILIZATION OF DISTURBED AREAS IMMEDIATELY AFTER CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE:
 - a) PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR
 - b) TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
 - 3) STAGED PERMANENT AND/OR TEMPORARY STABILIZING SEEDING AND MULCHING SHALL BE COMPLETED AS THE DISTURBED AREAS ARE COMPLETED. INCOMPLETE AREAS SHALL BE STABILIZED ACCORDING TO PARAGRAPH III, C, 1, A, 2, B ABOVE.
 - 4) PERMANENT AND TEMPORARY STABILIZATION PRACTICES TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE PRACTICES TO BE USED ON THIS PROJECT ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION (105-4) IN THE C SHEETS.
 - 5) PRESERVATION OF EXISTING VEGETATION WITHIN RIGHT-OF-WAY OR EASEMENTS WILL ACT AS VEGETATIVE BUFFER STRIPS.
 - 6) PRESERVATION OF TOPSOIL: BID ITEMS TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS. ADDITIONAL INFORMATION MAY BE FOUND IN TABULATIONS IN THE C OR T SHEETS OR IS REFERENCED IN SECTION 2105 OF STANDARD SPECIFICATIONS.
 - b. STRUCTURAL PRACTICES
 - 1) STRUCTURAL PRACTICES WILL BE IMPLEMENTED TO DIVERT FLOWS FROM EXPOSED SOILS AND DETAIN OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. ADDITIONALLY, STRUCTURAL PRACTICES MAY INCLUDE: SILT BASINS THAT PROVIDE 3600 CUBIC FEET OF STORAGE PER ACRE DRAINED OR EQUIVALENT SEDIMENT CONTROLS, OUTLET STRUCTURES THAT WITHDRAW WATER FROM SURFACE WHEN DISCHARGING BASINS, AND CONTROLS TO DIRECT STORM WATER TO VEGETATED AREAS.
 - 2) STRUCTURAL PRACTICES TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS, AS WELL AS ALL OTHER ITEM SPECIFIC TABULATIONS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE DEVICES TO BE USED ON THIS PROJECT CAN BE FOUND IN THE B SHEETS OR ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION (105-4) LOCATED IN THE C SHEETS.
 - c. STORM WATER MANAGEMENT
 - MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THIS MAY INCLUDE VELOCITY DISSIPATION DEVICES AT DISCHARGE LOCATIONS AND ALONG LENGTH OF OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSION VELOCITY FLOW FROM STRUCTURE TO WATER COURSE. IF INCLUDED WITH THIS PROJECT, THESE ITEMS ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS, AS WELL AS ALL OTHER ITEM SPECIFIC TABULATIONS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE PRACTICES TO BE USED ON THIS PROJECT ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION (105-4) IN THE C SHEETS. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

SWWP GENERAL NOTE

SHEET

R.01

2. OTHER CONTROLS

CONTRACTOR DISPOSAL OF UNUSED CONSTRUCTION MATERIALS AND CONSTRUCTION MATERIAL WASTES SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS. IN THE EVENT OF A CONFLICT WITH OTHER GOVERNMENTAL LAWS, RULES AND REGULATIONS, THE MORE RESTRICTIVE APPLICABLE LAWS, RULES OR REGULATIONS SHALL APPLY.

- a. VEHICLE ENTRANCES AND EXITS - CONSTRUCT AND MAINTAIN ENTRANCES AND EXITS TO PREVENT TRACKING OF SEDIMENTS ONTO ROADWAYS.
- b. MATERIAL DELIVERY, STORAGE AND USE - IMPLEMENT PRACTICES TO PREVENT DISCHARGE OF CONSTRUCTION MATERIALS DURING DELIVERY, STORAGE, AND USE.
- c. STOCKPILE MANAGEMENT - INSTALL CONTROLS TO REDUCE OR ELIMINATE POLLUTION OF STORM WATER FROM STOCKPILES OF SOIL AND PAVING.
- d. WASTE DISPOSAL - DO NOT DISCHARGE ANY MATERIALS, INCLUDING BUILDING MATERIALS, INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- e. SPILL PREVENTION AND CONTROL - IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES TO CONTAIN AND CLEAN UP SPILLS AND PREVENT MATERIAL DISCHARGES TO THE STORM DRAIN SYSTEM AND WATERS OF THE STATE.
- f. CONCRETE RESIDUALS AND WASHOUT WASTES - WASTE SHALL NOT BE DISCHARGED TO A SURFACE WATER AND IS NOT ALLOWED TO ADVERSELY AFFECT A WATER OF THE STATE. DESIGNATE TEMPORARY CONCRETE WASHOUT FACILITIES FOR RINSING OUT CONCRETE TRUCKS. PROVIDE DIRECTIONS TO TRUCK DRIVERS WHERE DESIGNATED WASHOUT FACILITIES ARE LOCATED. DESIGNATED WASHOUT AREAS SHOULD BE LOCATED AT LEAST 50 FEET AWAY FROM STORM DRAINS, STREAMS OR OTHER WATER BODIES. CARE SHOULD BE TAKEN TO ENSURE THESE FACILITIES DO NOT OVERFLOW DURING STORM EVENTS.
- g. CONCRETE GROOVING/GRINDING SLURRY - DO NOT DISCHARGE SLURRY TO A WATERBODY OR STORM DRAIN. SLURRY MAY BE APPLIED ON FORE SLOPES OR REMOVED FROM THE PROJECT.
- h. VEHICLE AND EQUIPMENT STORAGE AND MAINTENANCE AREAS - PERFORM ON SITE FUELING AND MAINTENANCE IN ACCORDANCE WITH ALL ENVIRONMENT LAWS SUCH AS PROPER STORAGE OF ONSITE FUELS AND PROPER DISPOSAL OF USED ENGINE OIL OR OTHER FLUIDS ON SITE. EMPLOY WASHING PRACTICES THAT PREVENT CONTAMINATION OF SURFACE AND GROUND WATER FROM WASH WATER. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- i. LITTER MANAGEMENT - ENSURE EMPLOYEES PROPERLY DISPOSE OF LITTER. MINIMIZE EXPOSURE OF TRASH IF EXPOSURE TO PRECIPITATION OR STORM WATER WOULD RESULT IN A DISCHARGE OF POLLUTANTS.
- j. DEWATERING - PROPERLY TREAT WATER TO REMOVE SUSPENDED SEDIMENT BEFORE IT RE-ENTERS A WATERBODY OR DISCHARGES OFF-SITE. MEASURES ARE ALSO TO BE TAKEN TO PREVENT SCOUR EROSION AT DEWATERING DISCHARGE POINT.

3. APPROVED STATE OR LOCAL PLANS

DURING THE COURSE OF THIS CONSTRUCTION, IT IS POSSIBLE THAT SITUATIONS WILL ARISE WHERE UNKNOWN MATERIALS WILL BE ENCOUNTERED. WHEN SUCH SITUATIONS ARE ENCOUNTERED, THEY WILL BE HANDLED ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS IN EFFECT AT THE TIME.

IV.. MAINTENANCE PROCEDURES

THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES IN PROPER WORKING ORDER, INCLUDING CLEANING, REPAIRING, OR REPLACING THEM THROUGHOUT THE CONTRACT PERIOD. THIS SHALL BEGIN WHEN THE FEATURES HAVE LOST 50% OF THEIR CAPACITY.

V.. INSPECTION REQUIREMENTS

- A. INSPECTIONS SHALL BE MADE JOINTLY BY THE CONTRACTOR AND THE CONTRACTING AUTHORITY'S INSPECTOR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. STORM WATER SITE INSPECTIONS WILL INCLUDE:
1. DATE OF THE INSPECTION.
 2. SUMMARY OF THE SCOPE OF THE INSPECTION.
 3. NAME AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION.
 4. REVIEW OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN DISTURBED AREAS FOR THE EFFECTIVENESS IN PREVENTING IMPACTS TO RECEIVING WATERS.
 5. MAJOR OBSERVATIONS RELATED TO THE IMPLEMENTATION OF THE PPP.
 6. IDENTIFICATION OF CORRECTIVE ACTIONS REQUIRED TO MAINTAIN OR MODIFY EROSION AND SEDIMENT CONTROL MEASURES.
- B. INCLUDE STORM WATER SITE INSPECTION REPORTS IN THE AMENDED PPP. INCORPORATE ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DETERMINED AS A RESULT OF THE INSPECTION. IMMEDIATELY BEGIN CORRECTIVE ACTIONS ON ALL DEFICIENCIES FOUND WITHIN 3 CALENDAR DAYS OF THE INSPECTION AND COMPLETE WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF IT IS DETERMINED THAT MAKING THE CORRECTIONS LESS THAN 72 HOURS AFTER THE INSPECTION IS IMPRACTICABLE, IT SHOULD BE DOCUMENTED WHY IT IS IMPRACTICABLE AND INDICATE AN ESTIMATED DATE BY WHICH THE CORRECTIONS WILL BE MADE.

VI.. NON-STORM WATER DISCHARGES

THIS INCLUDES SUBSURFACE DRAINS (I.E. LONGITUDINAL AND STANDARD SUBDRAINS) AND SLOPE DRAINS. THE VELOCITY OF THE DISCHARGE FROM THESE FEATURES MAY BE CONTROLLED BY THE USE OF HEADWALLS OR BLOCKS, CLASS A STONE, EROSION STONE OR OTHER APPROPRIATE MATERIALS. THIS ALSO INCLUDES UNCONTAMINATED GROUNDWATER FROM DEWATERING OPERATIONS, WHICH WILL BE CONTROLLED AS DISCUSSED IN SECTION III OF THE PPP.

VII.. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

SILTS, SEDIMENT, AND OTHER FORMS OF POLLUTION MAY BE TRANSPORTED ONTO HIGHWAY RIGHT-OF-WAY (ROW) AS A RESULT OF A STORM EVENT. POTENTIAL SOURCES OF POLLUTION LOCATED OUTSIDE HIGHWAY ROW ARE BEYOND THE CONTROL OF THIS PPP. POLLUTION WITHIN HIGHWAY ROW WILL BE CONVEYED AND CONTROLLED PER THIS PPP.

VIII.. DEFINITIONS

- A. BASE PPP - INITIAL POLLUTION PREVENTION PLAN.
- B. AMENDED PPP - BASE PPP AMENDED DURING CONSTRUCTION. MAY INCLUDE PLAN REVISIONS OR CONTRACT MODIFICATIONS FOR NEW ITEMS, STORM WATER SITE INSPECTION REPORTS, FIELD BOOK ENTRIES MADE BY THE INSPECTOR, AMENDED PPP SITE MAP BY THE CONTRACTOR, ECIP, NOI, CO-PERMITTEE CERTIFICATIONS, AND SUBCONTRACTOR REQUEST FORMS. ITEMS AMENDING THE PPP ARE STORED ELECTRONICALLY AND ARE READILY AVAILABLE UPON REQUEST.
- C. FIELD BOOK ENTRIES - THIS CONTAINS THE INSPECTOR'S DAILY DIARY AND BID ITEM POSTINGS.
- D. CONTROLS - METHODS, PRACTICES, OR MEASURES TO MINIMIZE OR PREVENT EROSION, CONTROL SEDIMENTATION, CONTROL STORM WATER, OR MINIMIZE CONTAMINANTS FROM OTHER TYPES OF WASTE OR MATERIALS. ALSO CALLED BEST MANAGEMENT PRACTICES (BMPs).
- E. SIGNATURE AUTHORITY - REPRESENTATIVE AUTHORIZED TO SIGN VARIOUS STORM WATER DOCUMENTS.

IX.. CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE

PRINTED OR TYPED NAME

SIGNATURE

PRINTED OR TYPED NAME

lot intended for use in perennial or intermittent streams.

Not intended for use in perennial or intermittent streams.

Fill and compact rills and gullies (see Detail B) prior to placing Perimeter and Slope Sediment Control Device. Ensure ground surface is smooth in order to provide continuous contact with Perimeter and Slope Sediment Control Device. Minor ground shaping may be required. Filling and compacting rills and gullies, and minor ground shaping, is incidental to Perimeter and Slope Sediment Control Device.

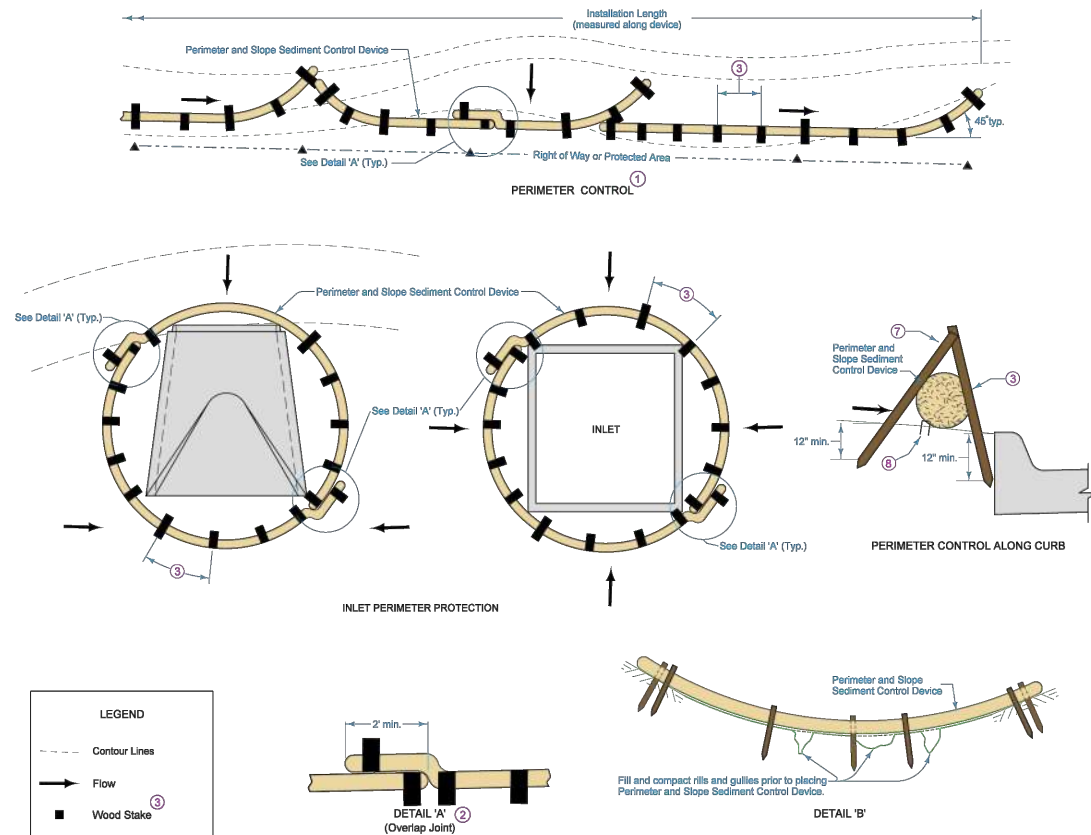
- ① Overlap joints per Detail 'A'. Turn the lower 10 feet of each run up the slope to help contain runoff. When placed such that runoff is conveyed along the device, additional run-ups and/or means may be required to reduce erosion along the device. Run-ups will be included in the installation length.
- ② Extra material required to install overlaps will not be included in the installation length.
- ③ Install downslope stakes at 4' end maximum spacing. Upslope stakes spaced at 4' and middle of device. Use minimum actual stake size 3/4" x 3/4" wood stakes.
- ⑦ All stakes to be placed at approximately 45 degree angle to ground.
- ⑧ Install staples every 2 feet on upslope side.

Possible Contract Item:
Perimeter and Slope Sediment Control Device
Ditch Check Sediment Control Device

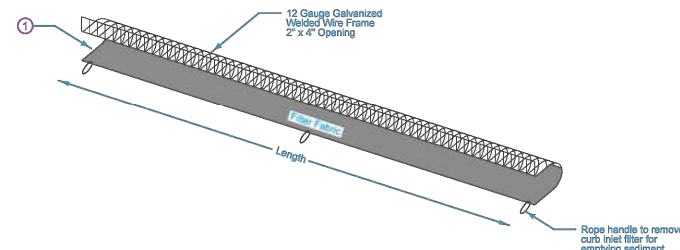
Possible Tabulation:
100-19

 IOWA DOT STANDARD ROAD PLAN	REVISION	
	6	10-19-
	EC-204 SHEET 1 of 3	

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES



OPEN-THROAT CURB INTAKE SEDIMENT FILTER



- Remove sediment filter upon stabilization of sediment sources.
- 1 Trim frame as needed to tightly fit in the intake throat. Overlap fabric a minimum of 3 inches and securely fasten.
 - 2 Securely attach filter fabric to the wire frame leaving an overflow opening above the filter fabric.
 - 3 Woven material meeting the requirements of Table 4196.01-1 of the Standard Specifications, except a minimum apparent opening size US Sieve No. 10 and a minimum flow rate of 145 gallons per minute per square foot.
 - 4 Insert sediment filter to create a compression fit in the intake throat. If overflow opening is not present after inserting filter, trim filter fabric so opening is present.

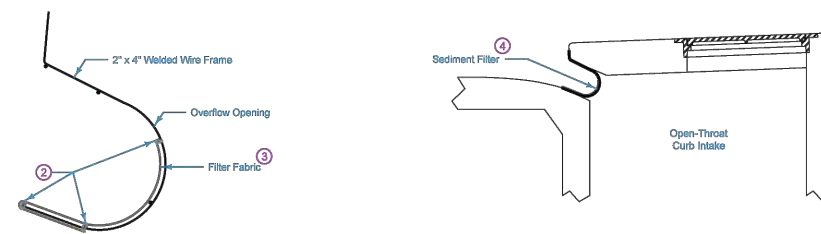
Possible Contract Items:

- Open-throat Curb Intake Sediment Filter
- Maintenance of Open-throat Curb Intake Sediment Filter
- Removal of Open-throat Curb Intake Sediment Filter

Possible Tabulation
100-36

 IOWA DOT	REVISION	
	1	10-21-
	EC-602	
STANDARD ROAD PLAN		SHEET 1 of 1

OPEN-THROAT CURB INTAKE SEDIMENT FILTER



SEDIMENT FILTER CROSS SECTION

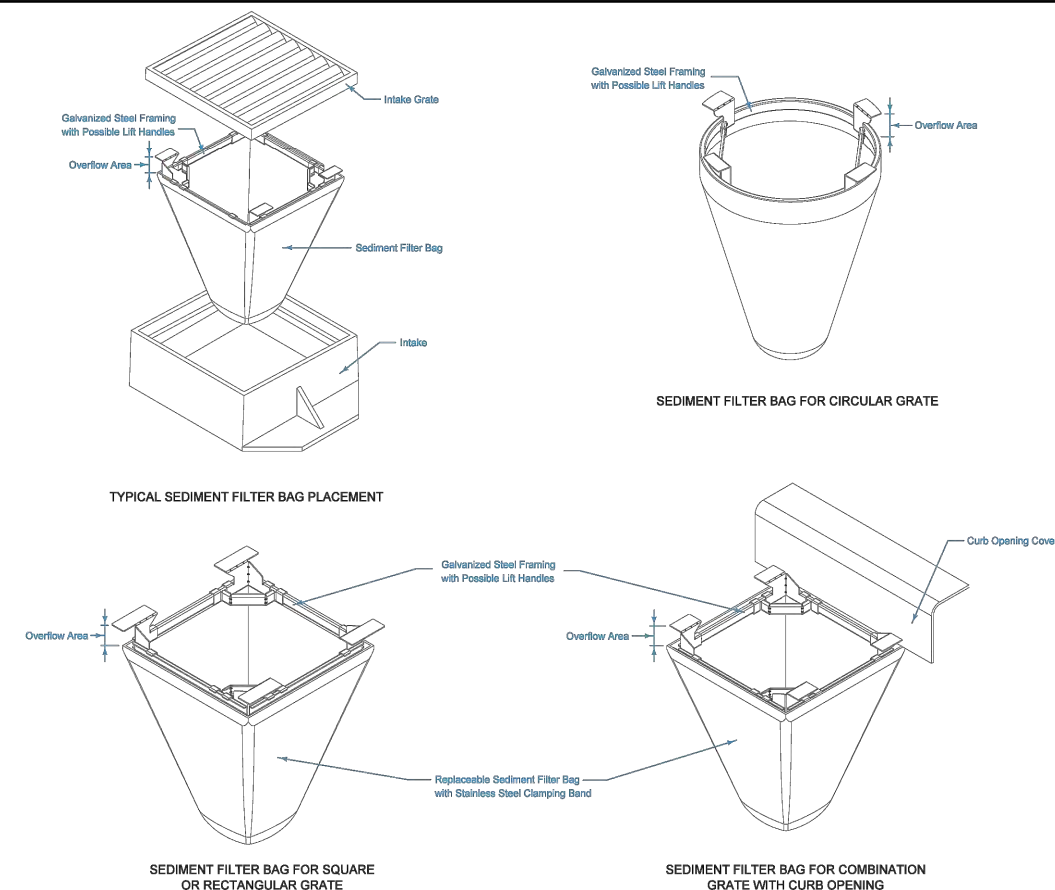
SEDIMENT FILTER PLACEMENT

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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

SHEET

R.03



Use sediment filter bag consisting of woven material meeting the requirements of Table 4196.01-1 of the Standard Specifications, except a maximum apparent opening size of US Sieve No. 10 and a minimum flow rate of 145 gallons per minute per square foot. Sediment filter bags without steel frame and clamping bands will be allowed if overflow is provided.

Remove sediment filter bag upon stabilization of sediment sources.

Measurement for Grate Intake Sediment Filter Bag will be by count.

Basis of Payment for Grate Intake Sediment Filter Bag will be at the contract unit price for each device installed. Payment is full compensation for furnishing all equipment, labor, and materials required to install the Grate Intake Sediment Filter Bag as shown.

Method of Measurement for Maintenance of Grate Intake Sediment Filter Bag will be by count.

Basis of Payment for Maintenance of Grate Intake Sediment Filter Bag will be at the contract unit price for each occurrence. Payment is full compensation for clean out and disposal of material when capacity reaches 50%, and for any other repair needed during the project.

Measurement for Removal of Grate Intake Sediment Filter Bag will be by count.

Basis of Payment for Removal of Grate Intake Sediment Filter Bag will be at the contract unit price for each device removed. Payment is full compensation for all labor and equipment required for removal.

Possible Contract Items:

- Grate Intake Sediment Filter Bag
- Maintenance of Grate Intake Sediment Filter Bag
- Removal of Grate Intake Sediment Filter Bag

Possible Tabulation
100-37

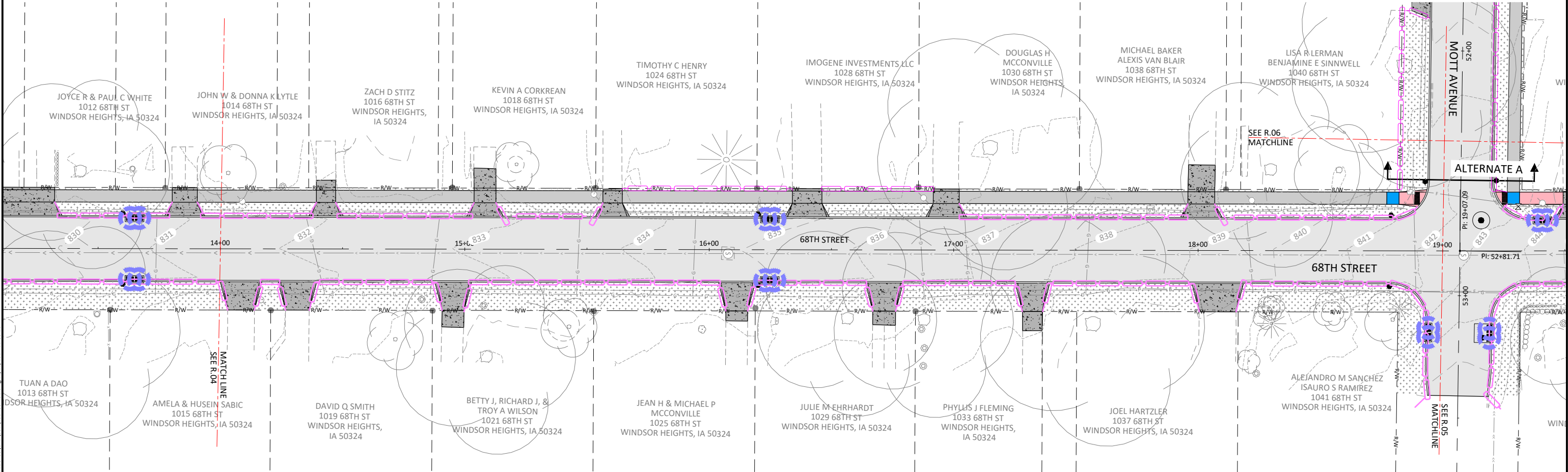
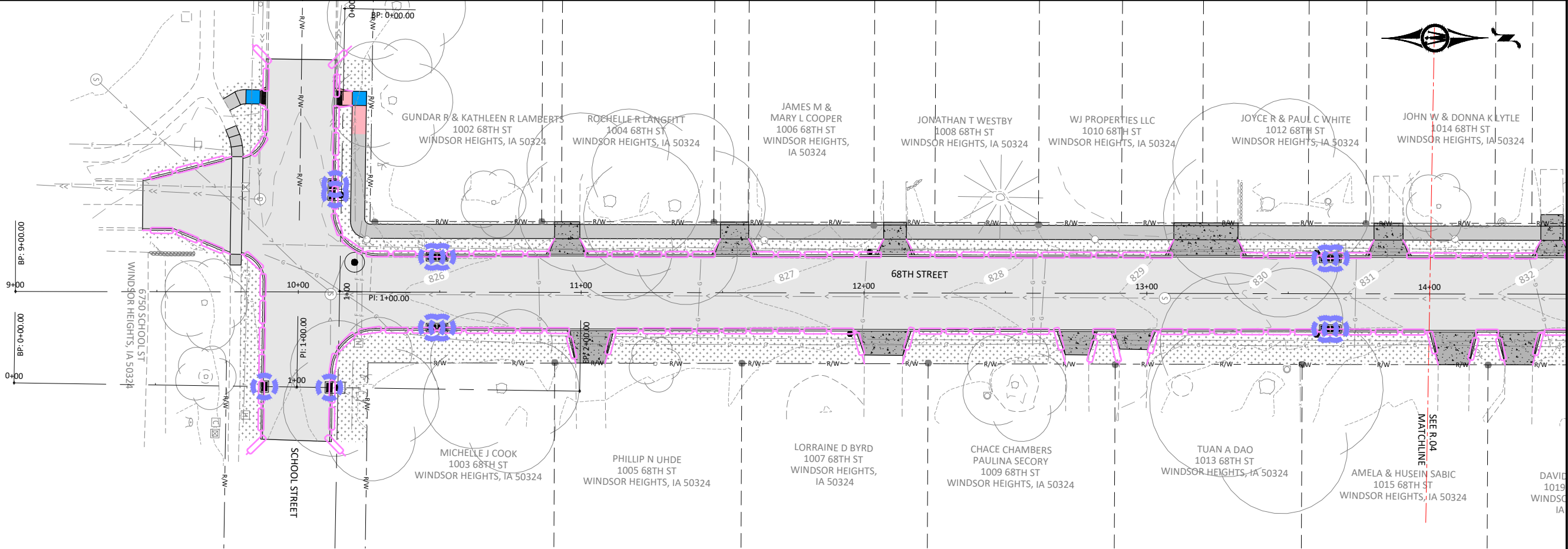
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	New	10-17-
	EC-604 SHEET 1 of 1	

**GRATE INTAKE
SEDIMENT FILTER BAG**

EROSION CONTROL LEGEND

- MAJOR CONTOUR - EXISTING
- MINOR CONTOUR - EXISTING
- MAJOR CONTOUR - PROPOSED
- MINOR CONTOUR - PROPOSED
- DRAINAGE ARROW
- FILTER SOCK/WATTLE
- INLET PROTECTION
- SEED

NOTE:
EROSIONS CONTROL BEST MANAGEMENT PRACTICES (BMPs) AS SHOWN ON THIS PLAN SHEET ARE RECOMMENDATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, INSTALLING, AND MODIFYING BMPs AS NECESSARY TO PREVENT ILLICIT DISCHARGE FROM THE PROJECT SITE.



0 20 40
HORIZ. SCALE FEET

BOLTON & MENK

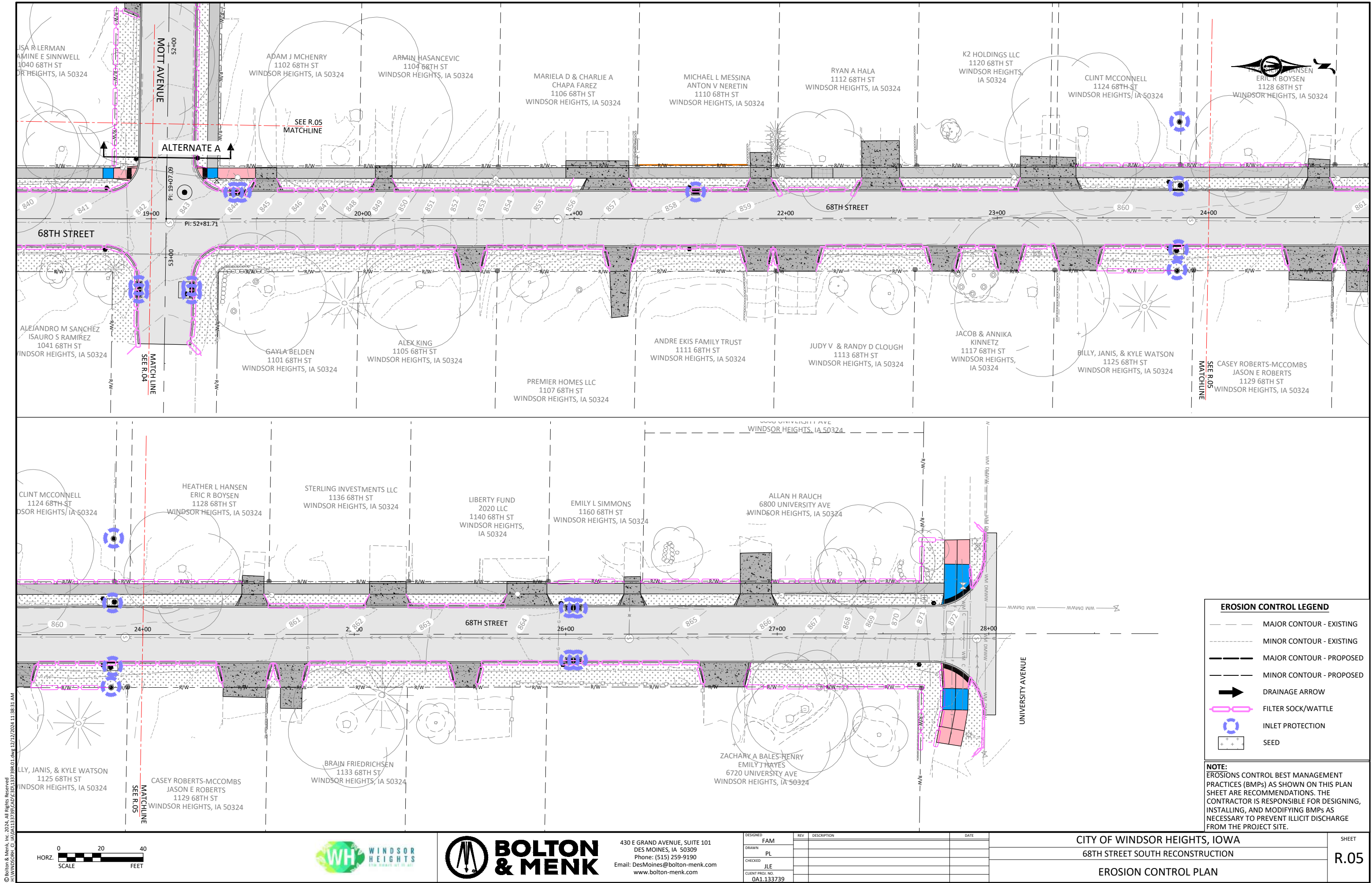
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68TH STREET SOUTH RECONSTRUCTION

EROSION CONTROL PLAN

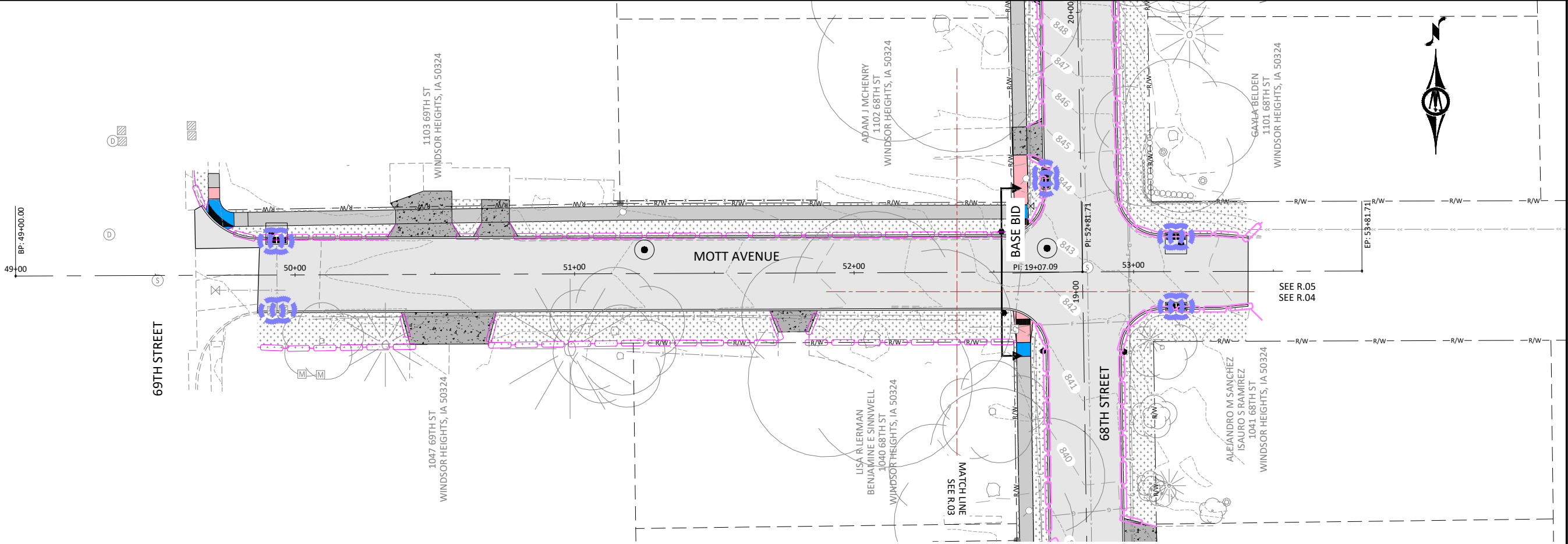
SHEET
R.04



EROSION CONTROL LEGEND

- MAJOR CONTOUR - EXISTING
- MINOR CONTOUR - EXISTING
- MAJOR CONTOUR - PROPOSED
- MINOR CONTOUR - PROPOSED
- DRAINAGE ARROW
- FILTER SOCK/WATTLE
- INLET PROTECTION
- SEED

NOTE:
EROSIONS CONTROL BEST MANAGEMENT PRACTICES (BMPs) AS SHOWN ON THIS PLAN SHEET ARE RECOMMENDATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, INSTALLING, AND MODIFYING BMPs AS NECESSARY TO PREVENT ILLICIT DISCHARGE FROM THE PROJECT SITE.

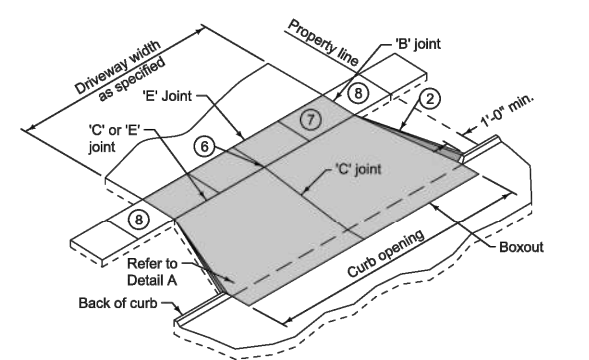


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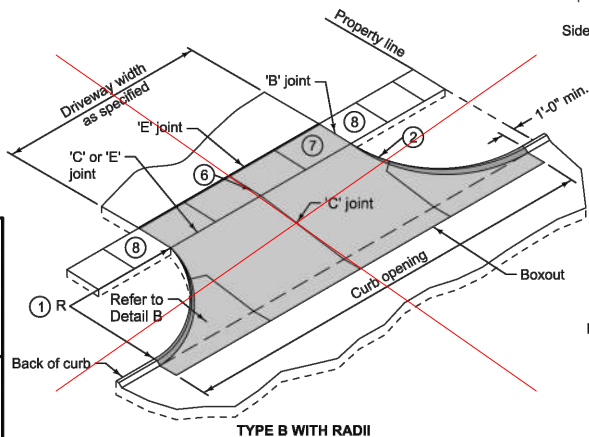
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
EROSION CONTROL PLAN

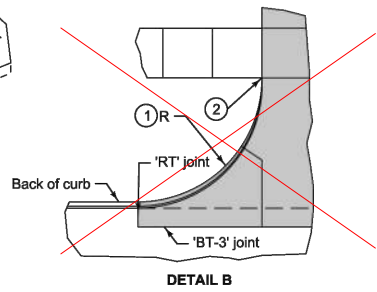
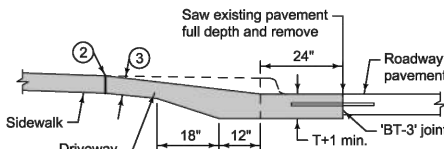
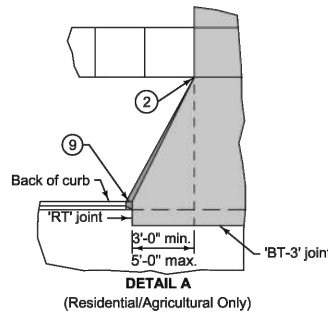
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TYPE B WITH FLARES

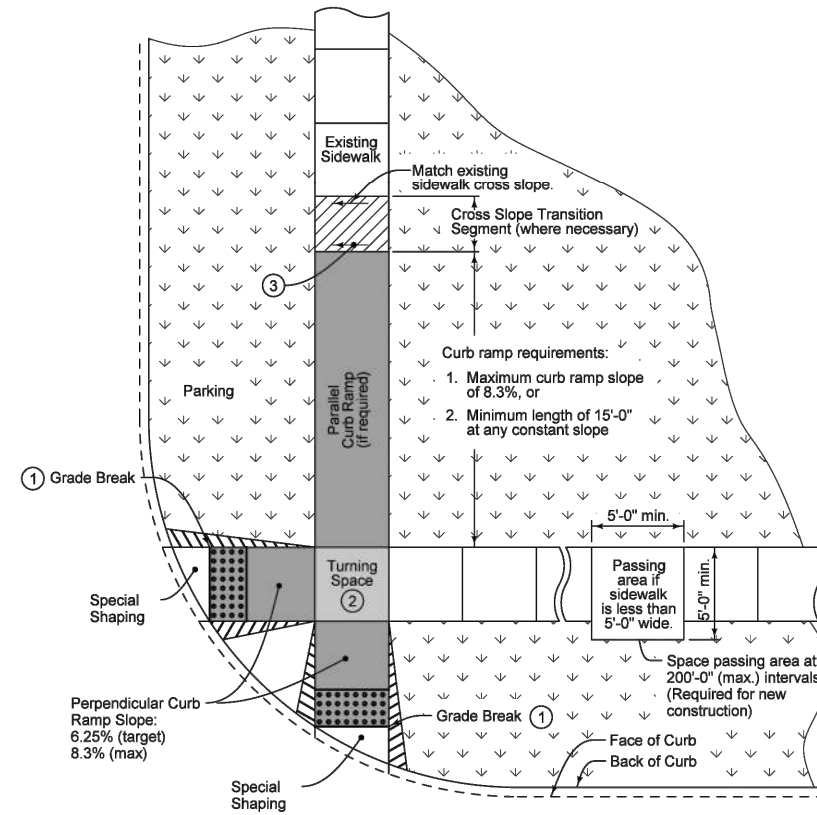


TYPE B WITH RADII



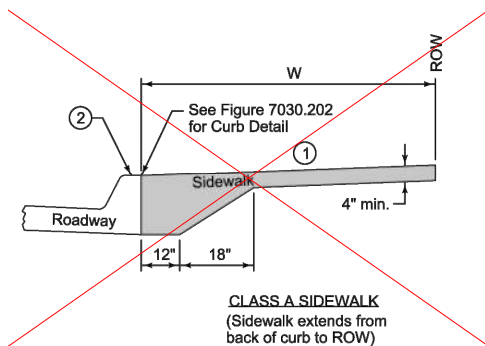
- 1 Driveway radius (R). Residential: 10 foot minimum, 15 foot maximum. Commercial and industrial: As specified in the contract documents.
- 2 Transition the curb height to 0 inches at end of taper/radius or at the front edge of sidewalk. Do not extend raised curb cross sidewalk.
- 3 Pavement thickness. Residential: 6 inches minimum. Commercial and industrial: 7 inches minimum.
- 4 Sidewalk thickness through driveway to match thickness of driveway.
- 5 If longitudinal joint is located 48 inches or less from the back of curb, extend boxout to joint line. Full depth saw cut is still required.
- 6 For alleys, invert the pavement crown 2% toward the center of the alley.
- 7 Target cross slope of 1.5% with a maximum cross slope of 2.0%. If specified in the contract documents, construct the sidewalk through the driveway 5 feet wide to serve as a passing space.
- 8 If cross slope of adjacent sidewalk panel exceeds 2.0%, remove and replace to transition from existing sidewalk to sidewalk through driveway. If the elevation change requires a curb ramp, comply with Figure 7030.205; verify need for detectable warning panel with Engineer.
- 9 Transition street curb at minimum 1:1 slope to meet driveway curb.

	REVISION
	5 2023 Edition
	7030.102
SUDAS Standard Specifications	
CONCRETE DRIVEWAY, TYPE B	

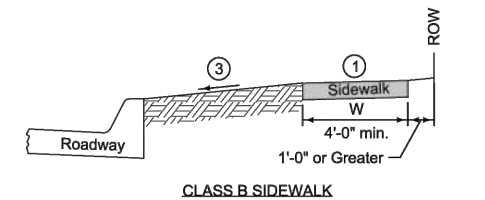


- 1 Match pedestrian street crossing slope, or flatter.
- 2 Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0%.
- 3 Target cross slope of 1.5% with a maximum cross slope of 2.0%.

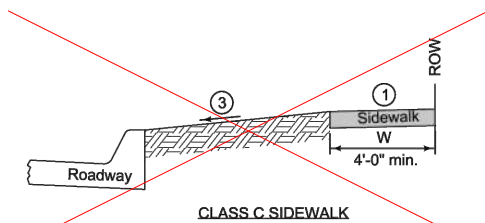
	REVISION
	3 10-20-15
	7030.204
SUDAS Standard Specifications	
GENERAL FEATURES OF AN ACCESSIBLE SIDEWALK	



CLASS A SIDEWALK
(Sidewalk extends from back of curb to ROW)



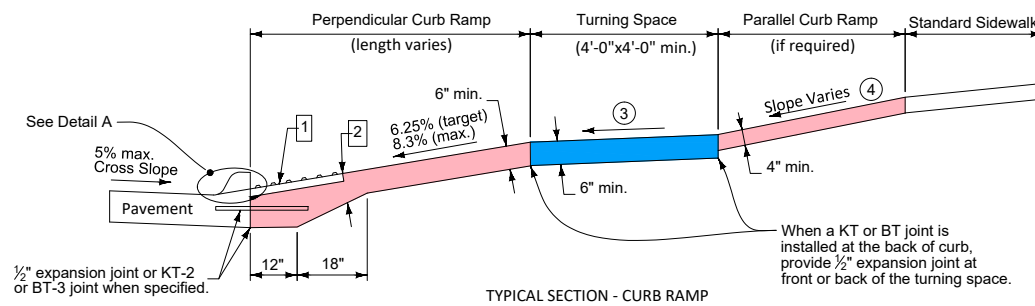
CLASS B SIDEWALK



CLASS C SIDEWALK

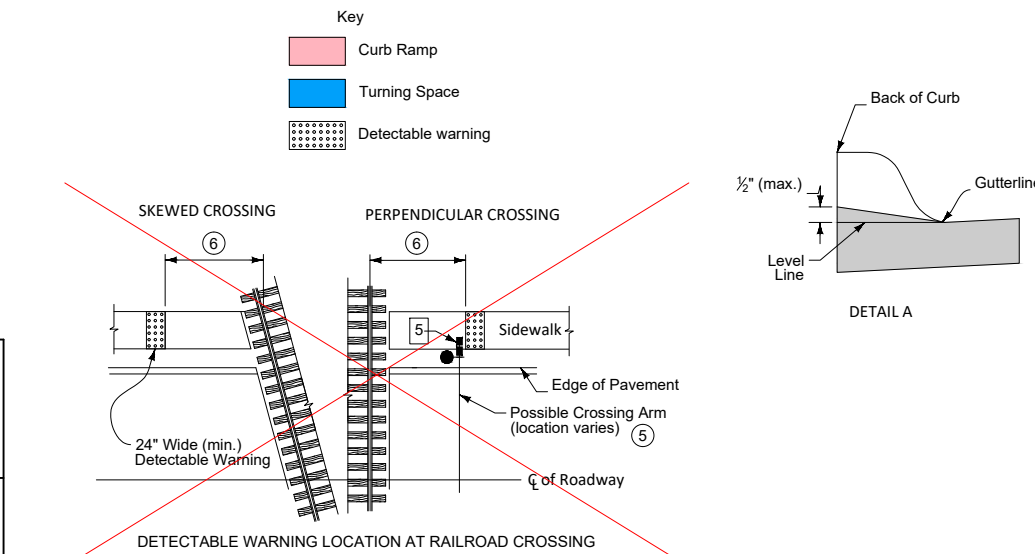
- 1 Target cross slope of 1.5% with a maximum cross slope of 2.0% (including sidewalk through driveway).
- 2 Ensure top of curb slopes to street for drainage.
- 3 Parking Slopes:
If parking width is less than 10 feet wide, slope at 1/4 inch per foot.
If parking width is 10 feet wide and greater, slope at 1/2 inch per foot.
Special grade may be specified in the contract documents.
W = Sidewalk width as specified in the contract documents.

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	3 2022 Edition
	7030.201
SUDAS Standard Specifications	
CLASSES OF SIDEWALKS	



- 1 Provide a minimum 2 foot width of detectable warning surfaces in the direction of pedestrian travel across the full width of the curb ramp or turning space, exclusive of curbs or flares.
- 2 Provide a minimum of 6 inches of concrete below the detectable warning panel.
- 3 Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0%.
- 4 If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and landing due to limited ramp length, provide a parallel ramp to make up the elevation difference between the landing and the standard sidewalk.

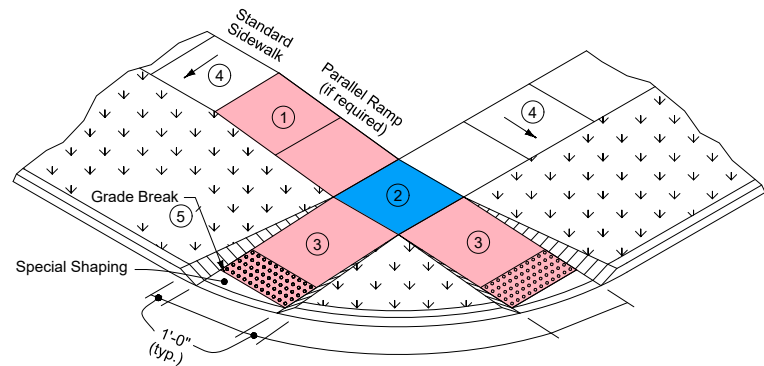
The length of the parallel ramp is not required to exceed 15 feet, regardless of the resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.



- 5 If crossing gate conflicts with location of detectable warning or if pedestrian crossing gate is provided, place detectable warning panel in advance of the crossing gate.
- 6 Locate front edge of detectable warning panel 12 to 15 feet from centerline of nearest rail. Orient truncated domes parallel to the direction of pedestrian travel.

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	1 10-20-15
	7030.205
SUDAS Standard Specifications	
GENERAL SIDEWALK AND CURB RAMP DETAILS	

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- ① Parallel Curb Ramp: If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and landing due to limited ramp length, provide a parallel ramp to make up the elevation difference between the landing and the standard sidewalk.
- The length of the parallel ramp is not required to exceed 15 feet, regardless of the resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.
- ② Turning Space: Target slope of 1.5% with maximum slope perpendicular to the travel directions of 2.0%. Minimum 4 feet by 4 feet.
- ③ Perpendicular Curb Ramp: Target running slope of 6.25% with maximum running slope of 8.3%.
- ④ Target cross slope of 1.5% with a maximum cross slope of 2.0%.
- ⑤ Match pedestrian street crossing cross slope or flatter.

Key

Curb Ramp

Turning Space

Detectable warning

Grass

	REVISION
	New 10-18-12
	7030.207
SHEET 1 of 1	
SUDAS Standard Specifications	
CURB RAMP FOR CLASS B OR C SIDEWALK	

FIGURE 7030.207 SHEET 1 OF 1



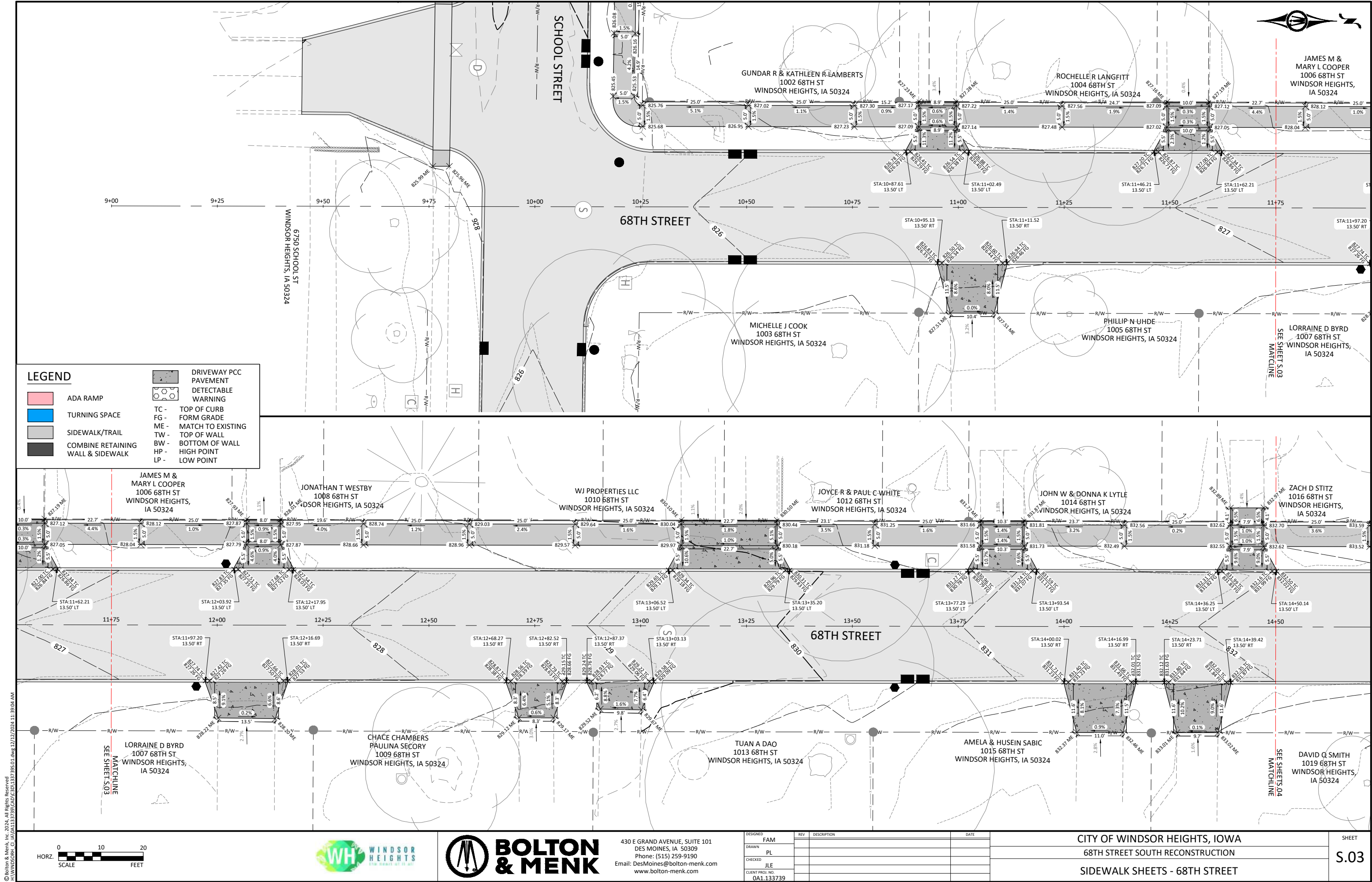
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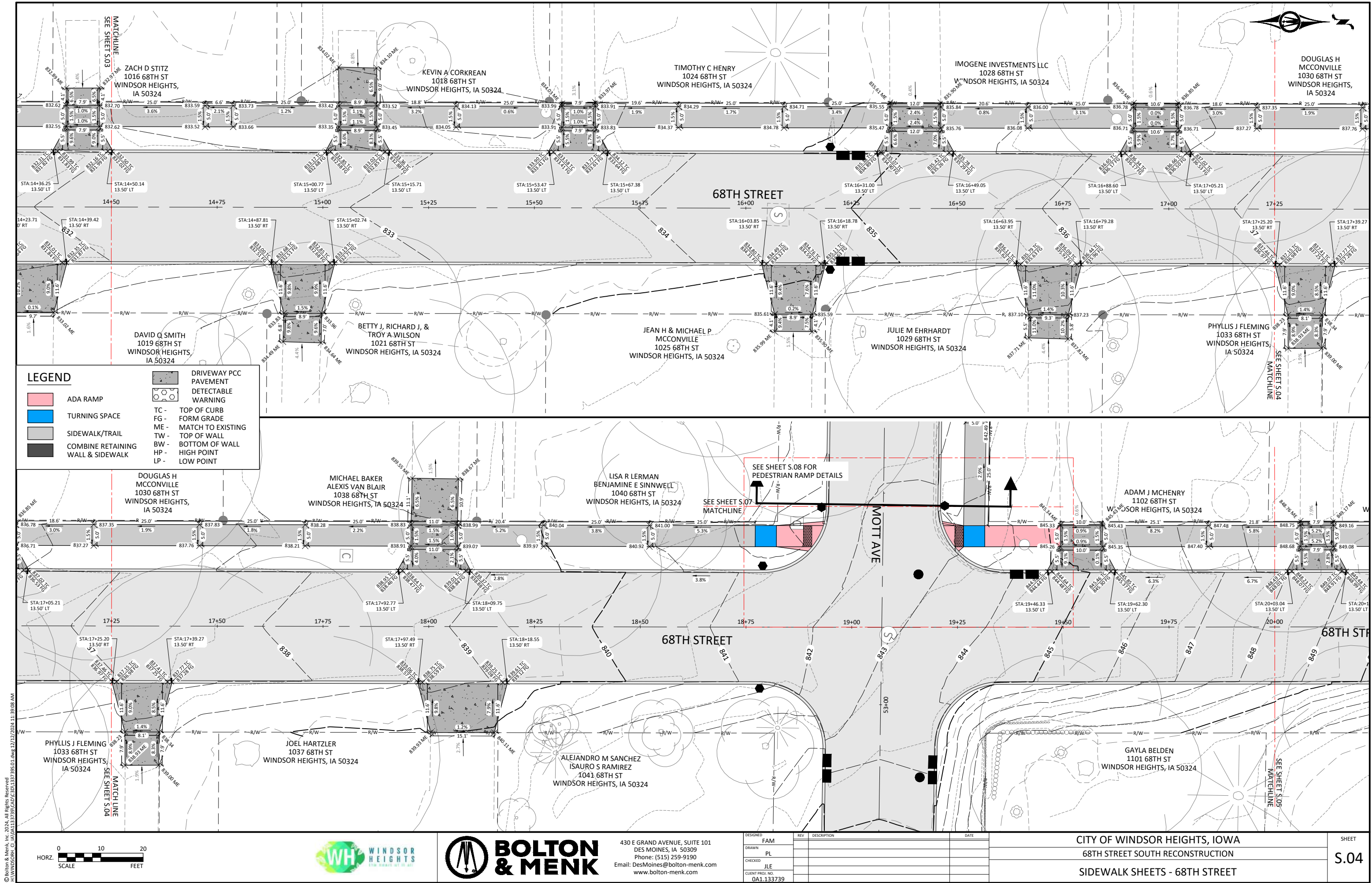
CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
SIDEWALK DETAILS

SHEET

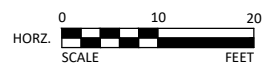
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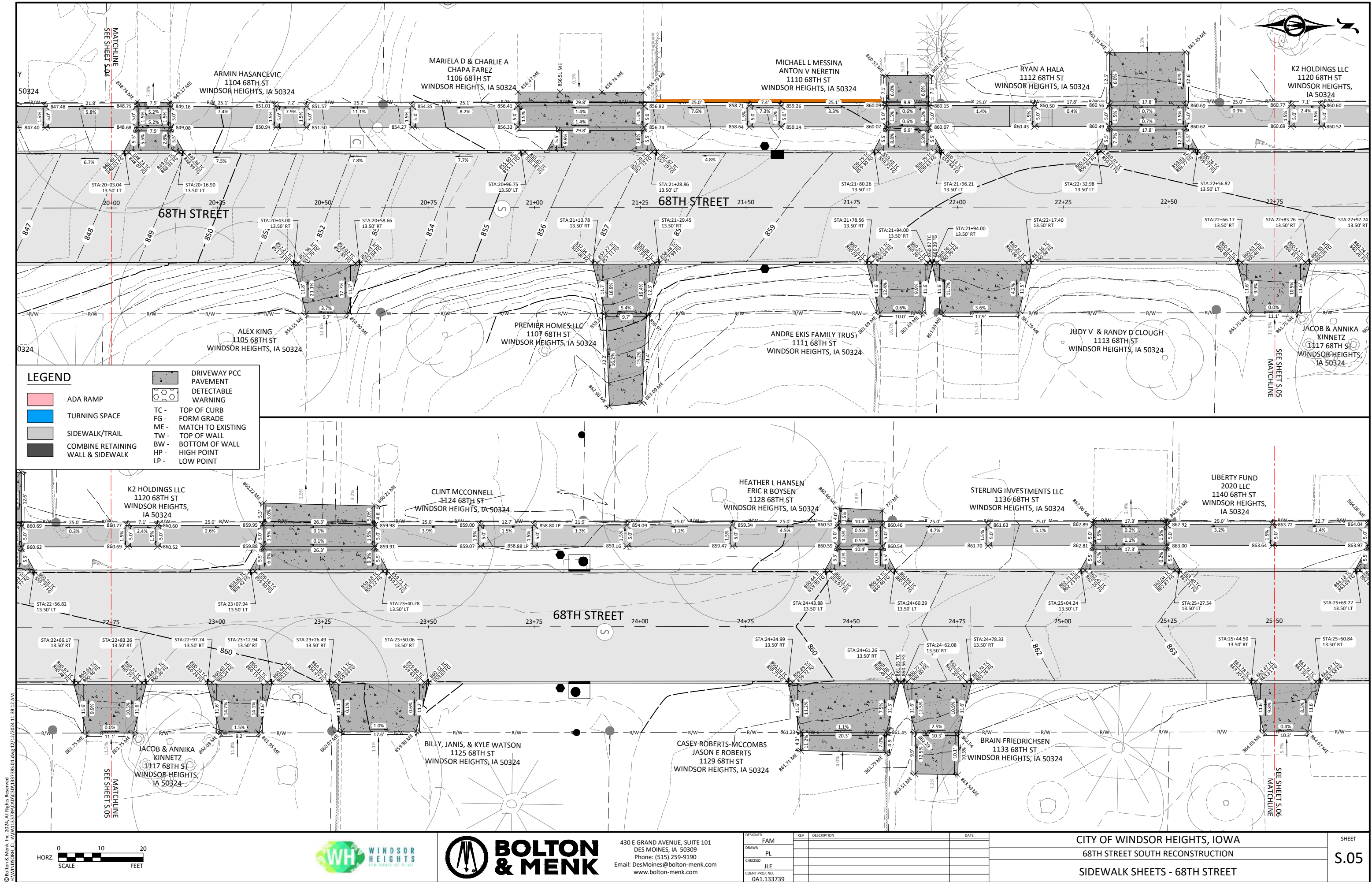
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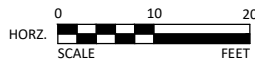
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68TH STREET SOUTH RECONSTRUCTION	S.04
SIDEWALK SHEETS - 68TH STREET	



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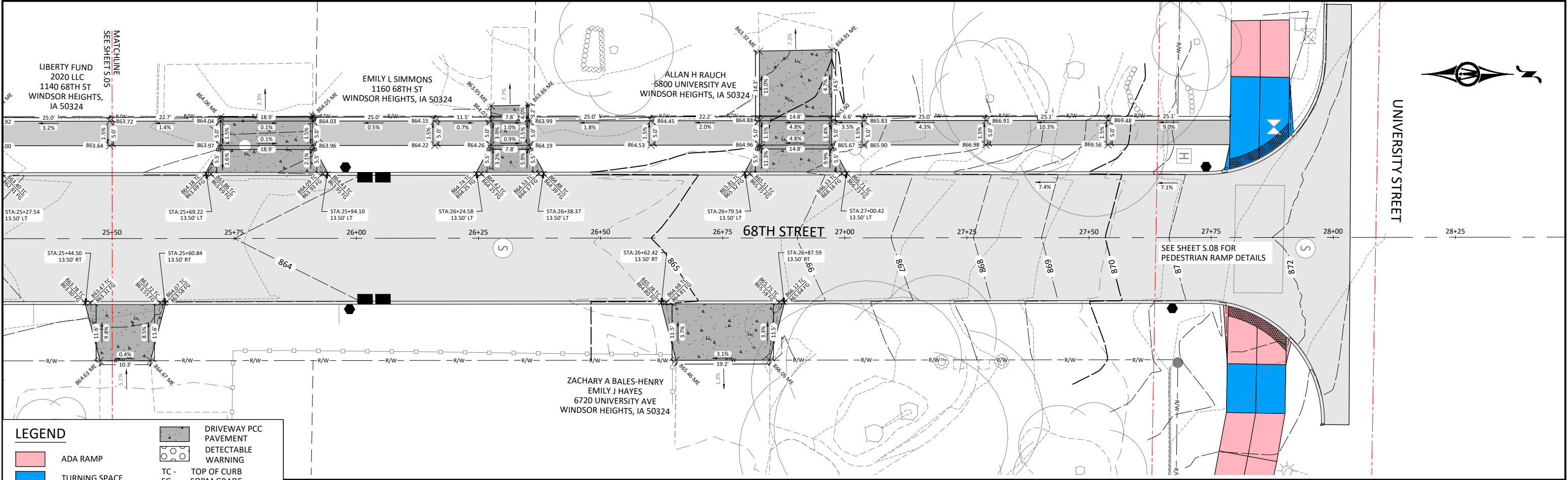


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SIDEWALK SHEETS - 68TH STREET

SHEET
S.05



LEGEND

ADA RAMP

TURNING SPACE

SIDEWALK/TRAIL

COMBINE RETAINING WALL & SIDEWALK

DRIVEWAY PCC PAVEMENT

DETECTABLE WARNING

TC -

TOP OF CURB

FG -

FORM GRADE

ME -

MATCH TO EXISTING

TW -

TOP OF WALL

BW -

BOTTOM OF WALL

HP -

HIGH POINT

LP -

LOW POINT

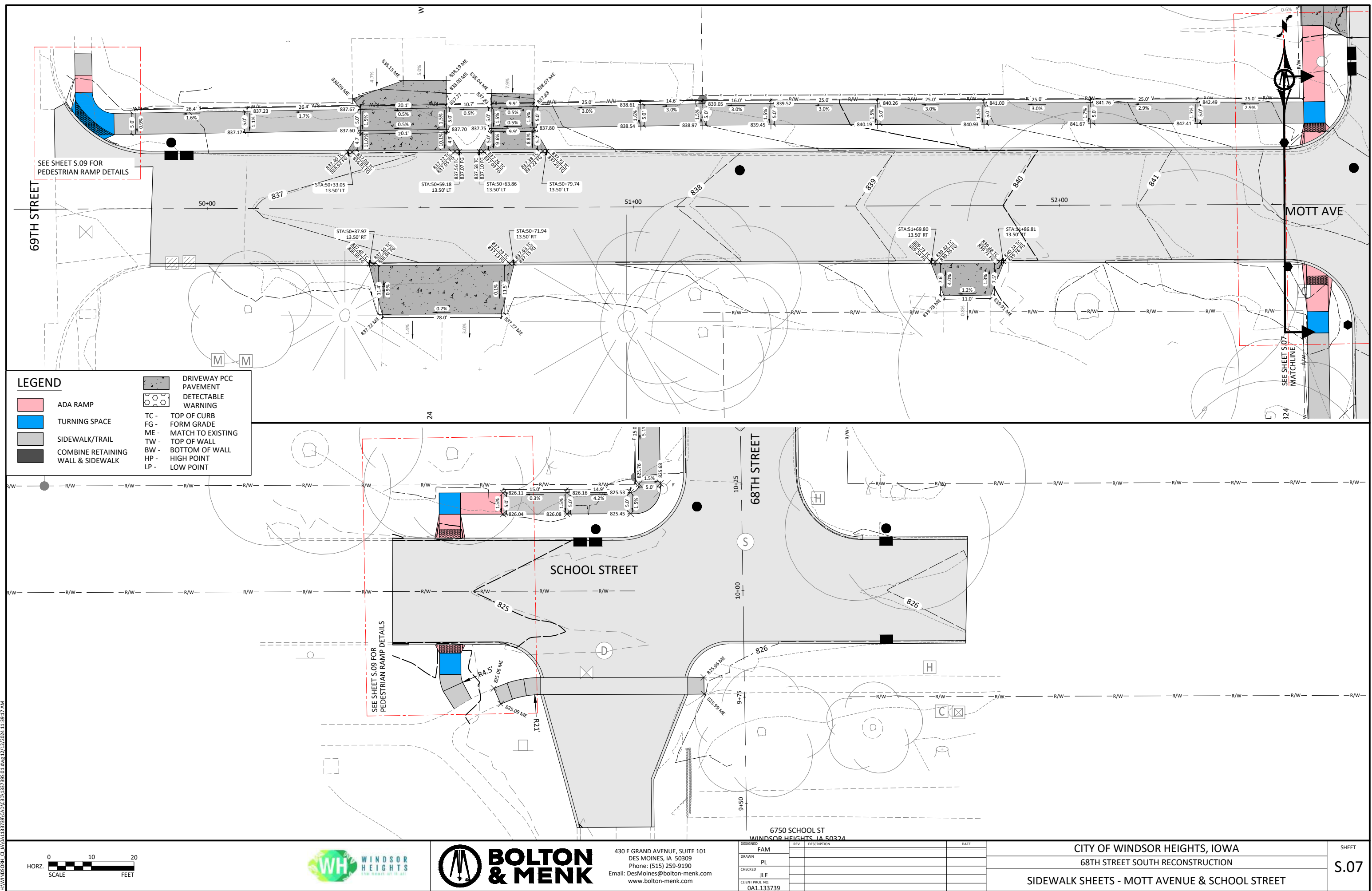
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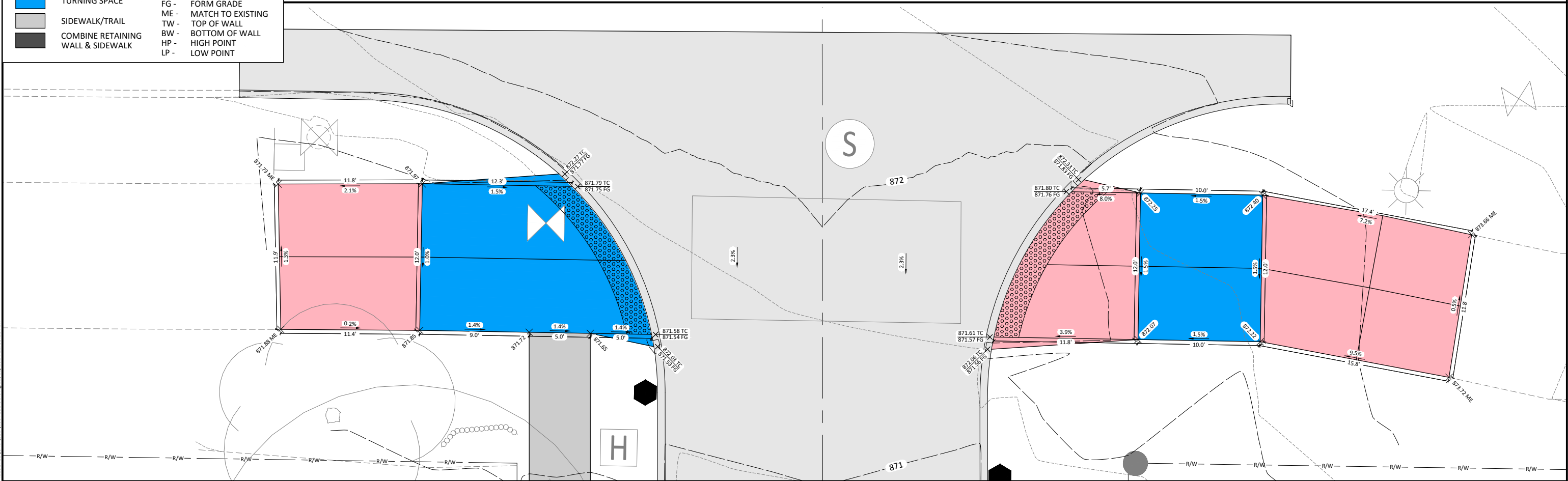
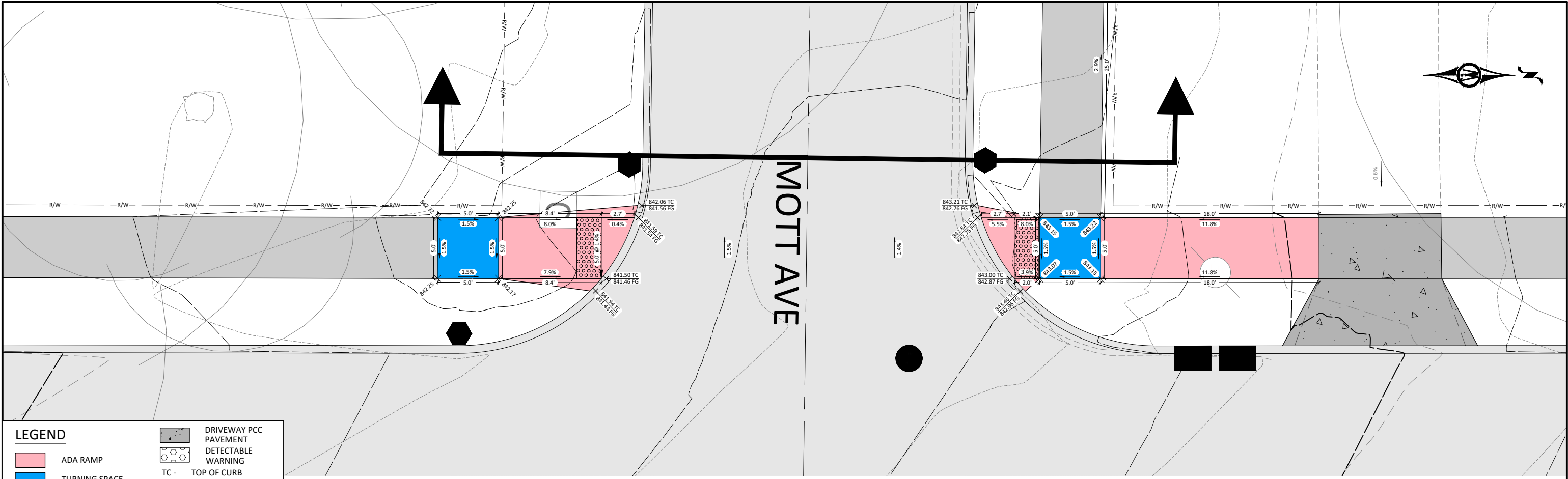


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68TH STREET SOUTH RECONSTRUCTION	
SIDEWALK SHEETS - 68TH STREET	





LEGEND

 ADA RAMP	 TC - TOP OF CURB
 TURNING SPACE	 FG - FORM GRADE
 SIDEWALK/TRAIL	 ME - MATCH TO EXISTING
 COMBINE RETAINING WALL & SIDEWALK	 TW - TOP OF WALL
	 BW - BOTTOM OF WALL
	 HP - HIGH POINT
	 LP - LOW POINT
	 DRIVEWAY PCC PAVEMENT
	 DETECTABLE WARNING

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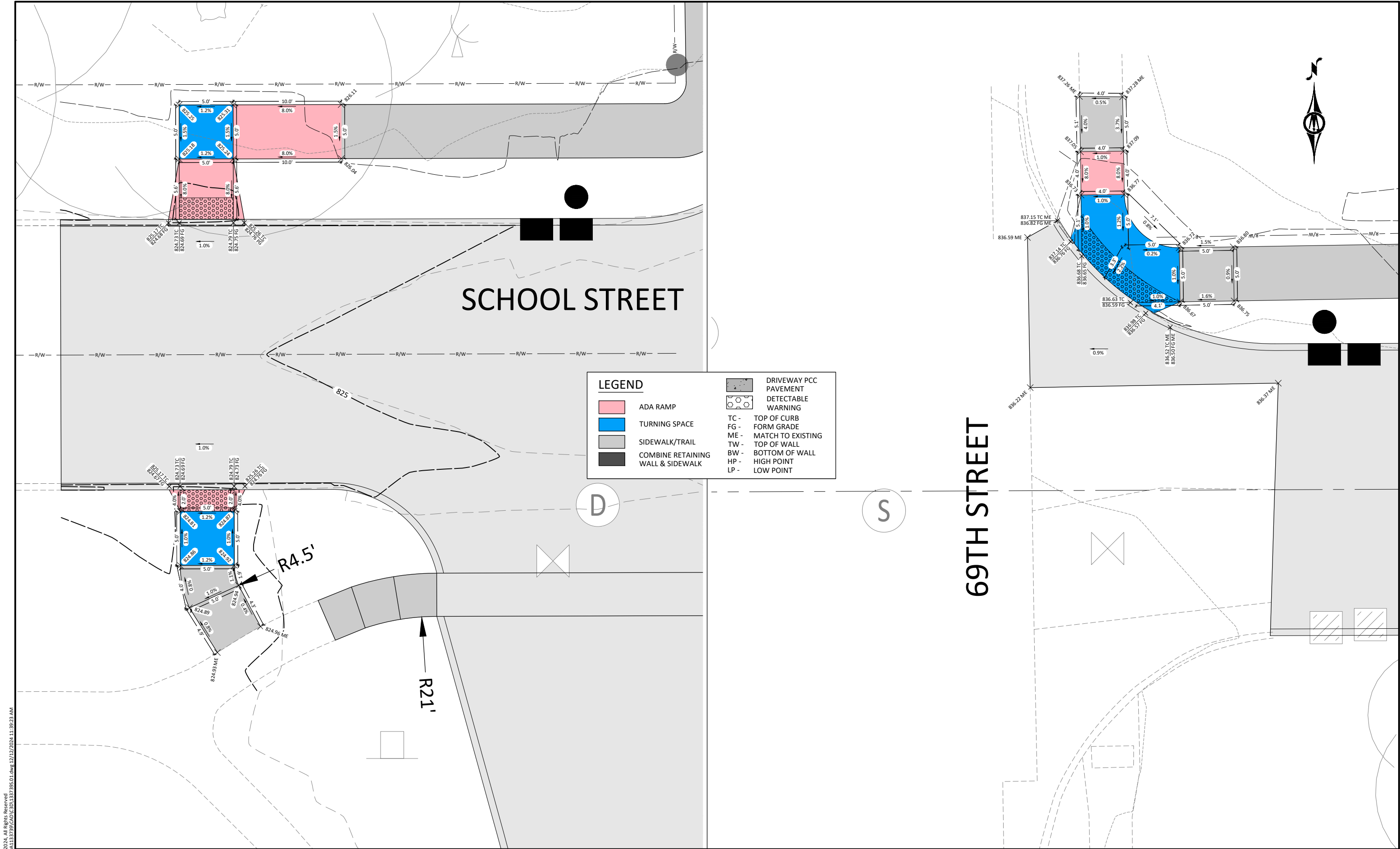


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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
ADA COMPLIANCE

SHEET
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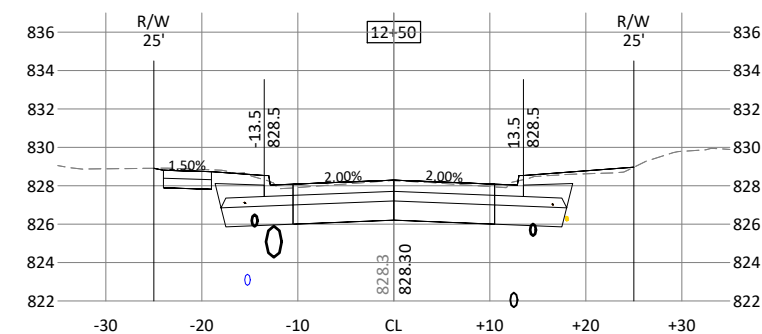
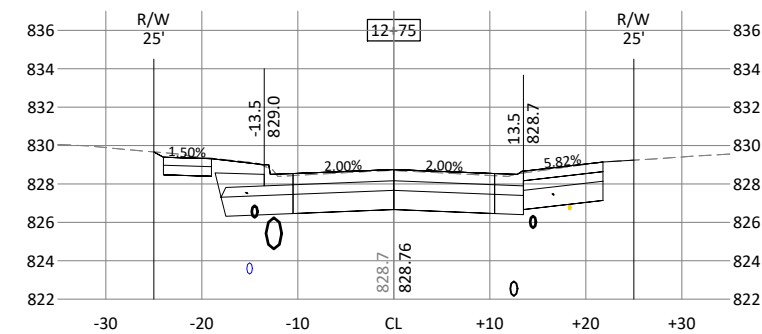
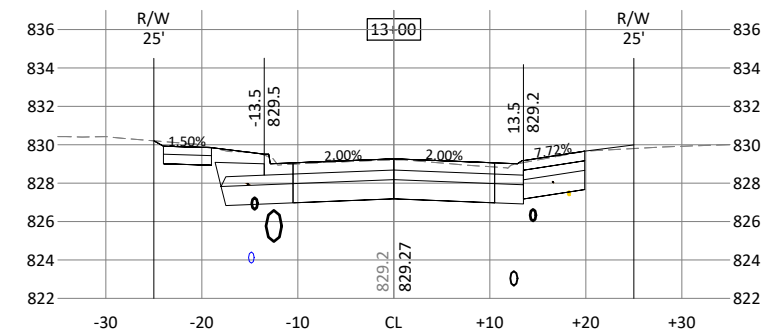
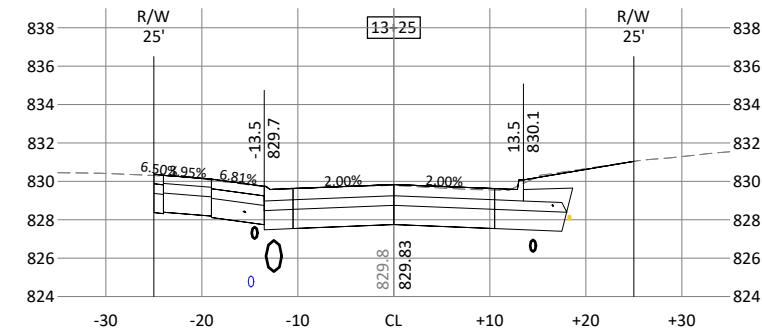
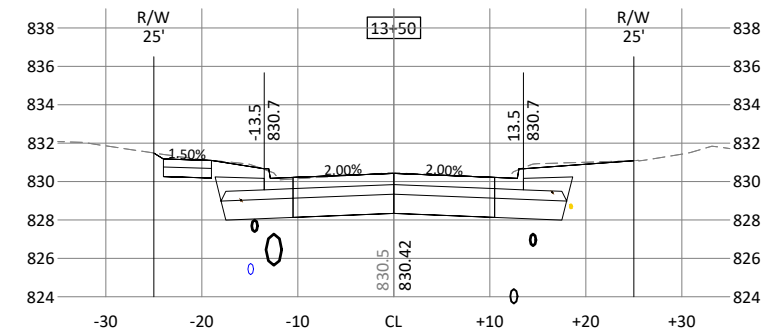
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68TH STREET SOUTH RECONSTRUCTION

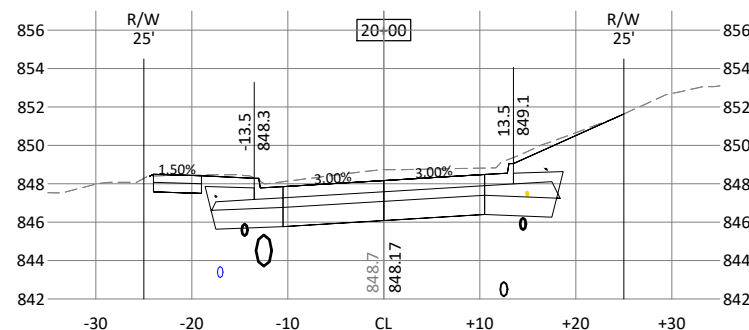
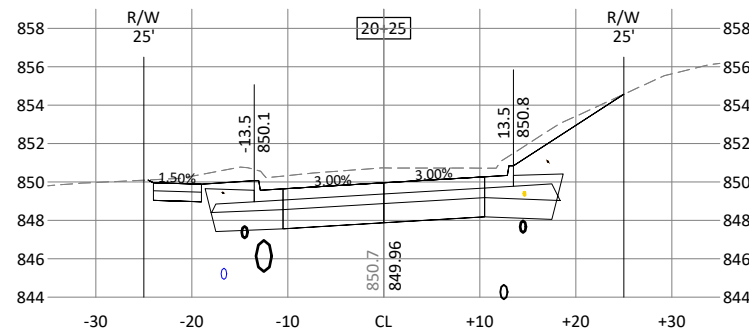
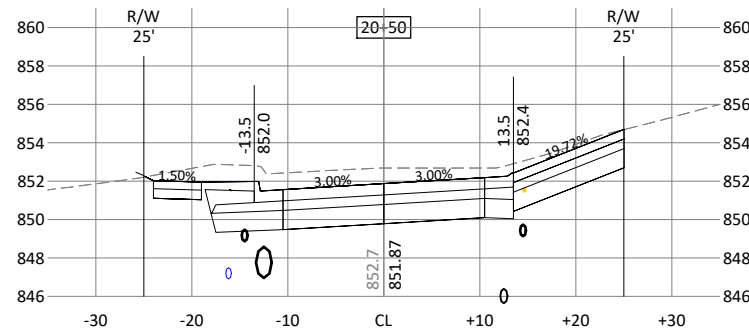
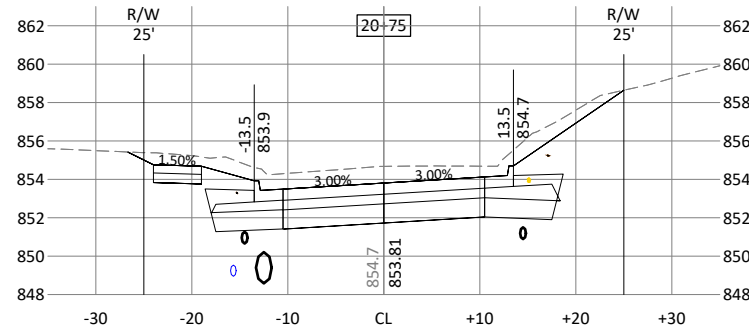
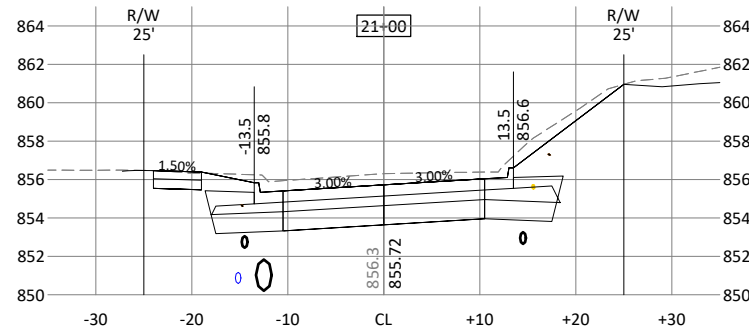
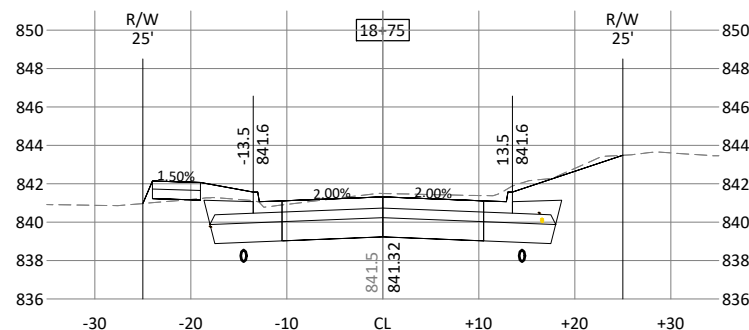
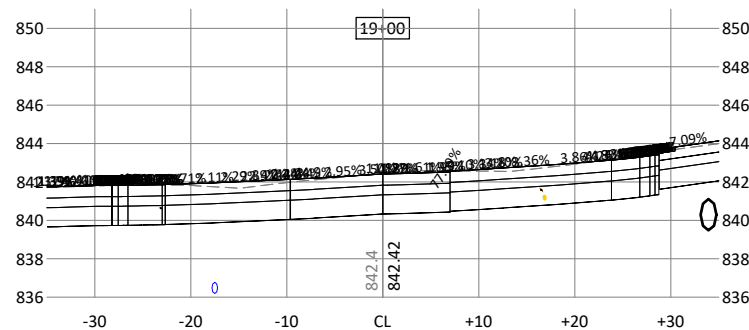
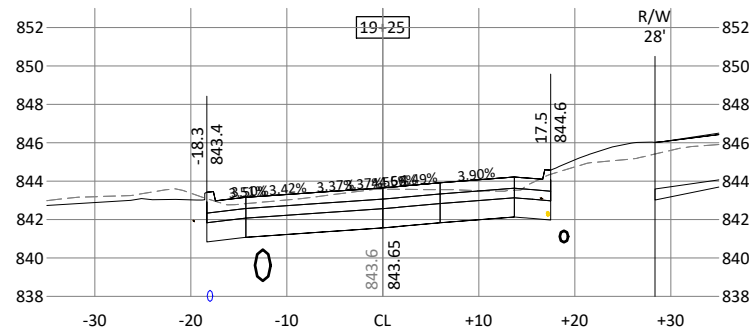
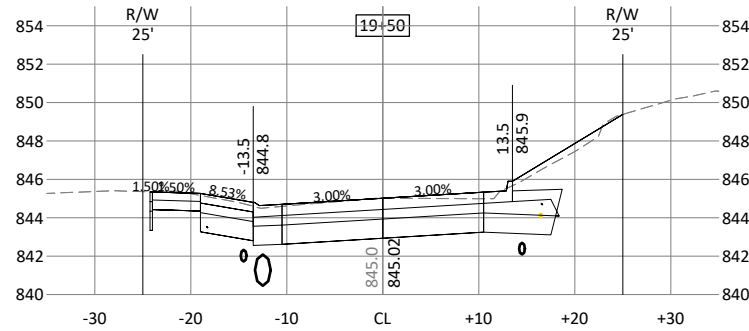
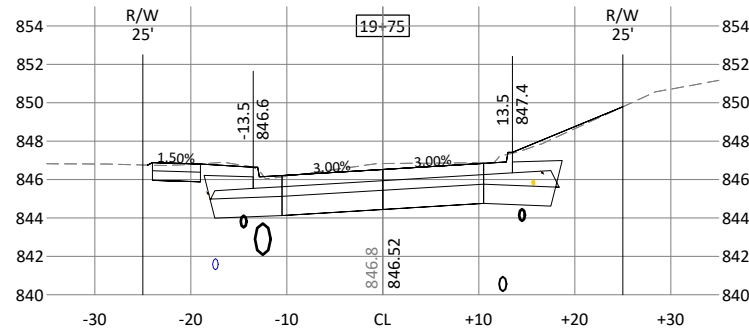
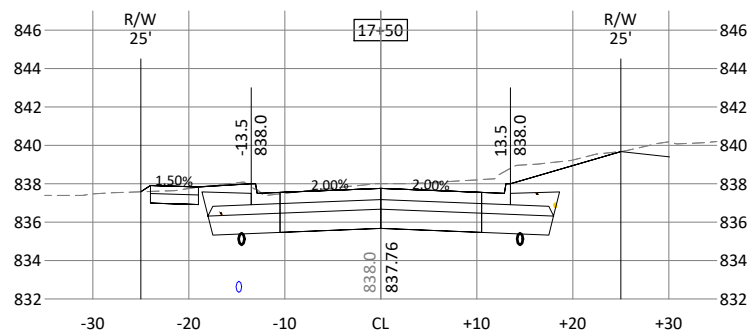
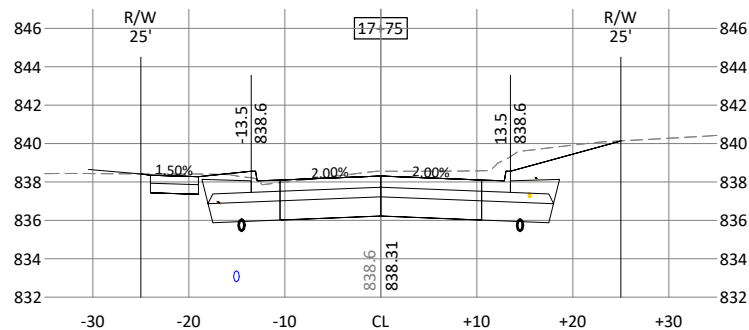
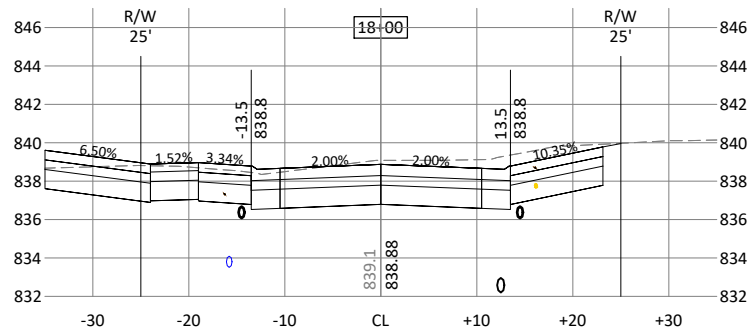
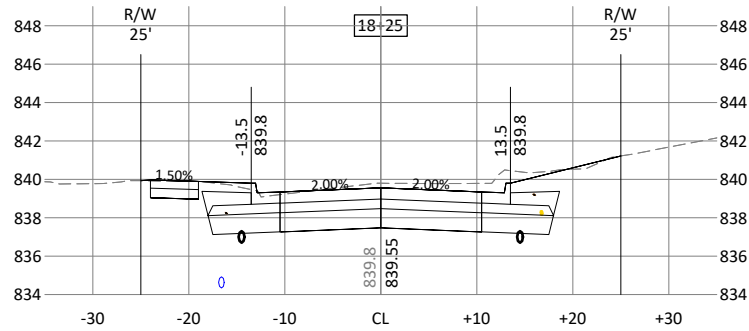
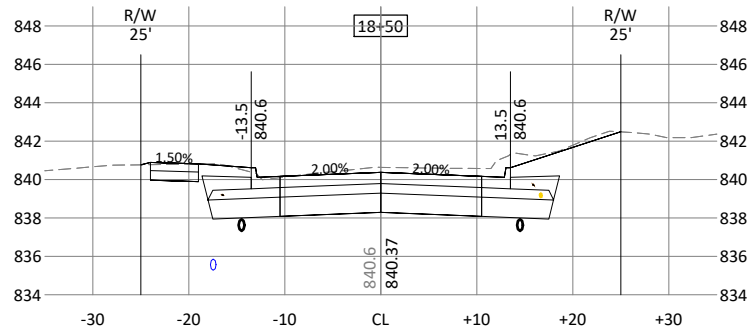
ADA COMPLIANCE

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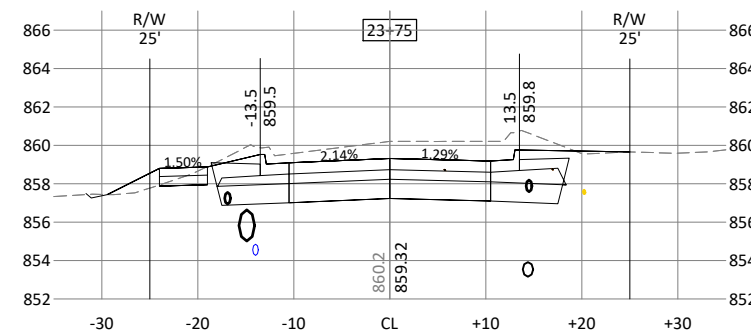
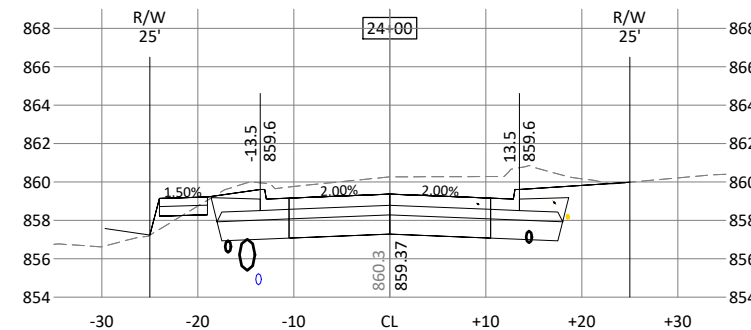
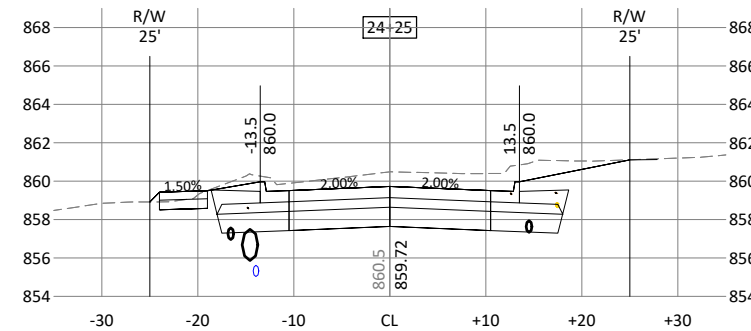
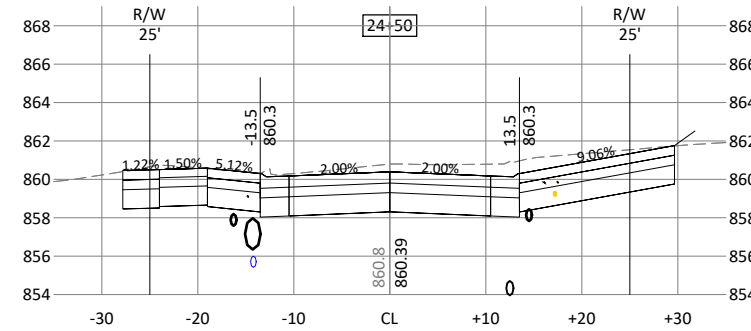
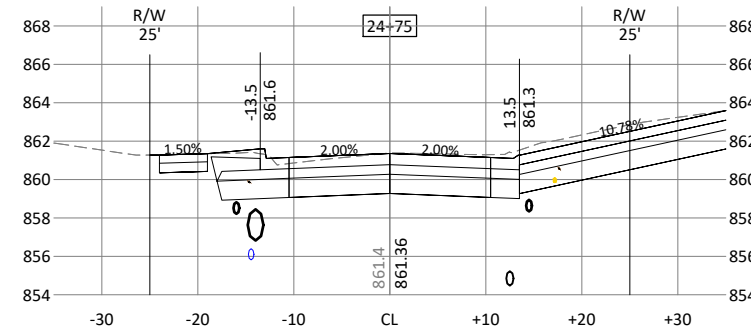
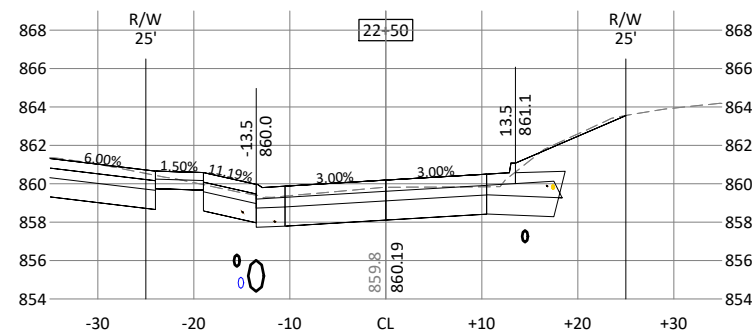
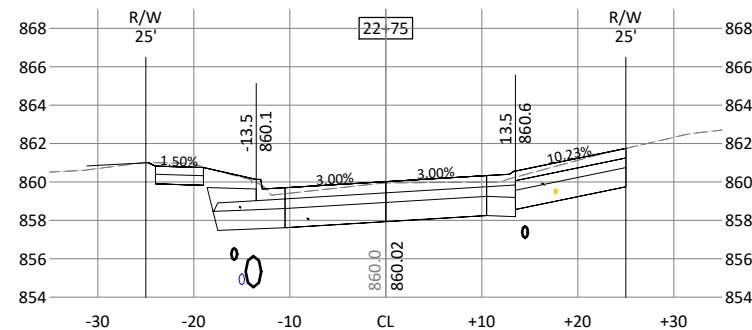
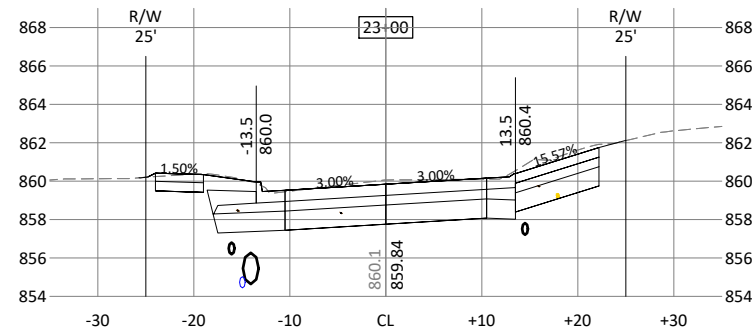
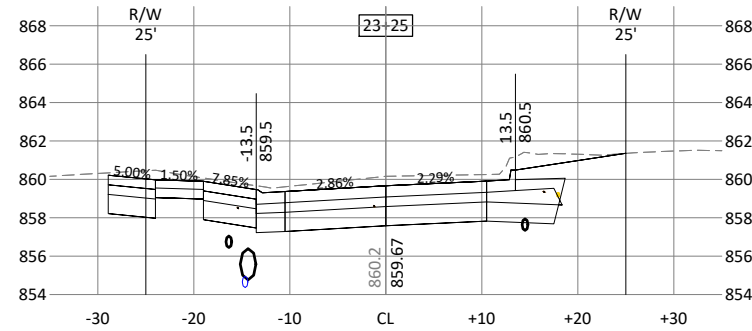
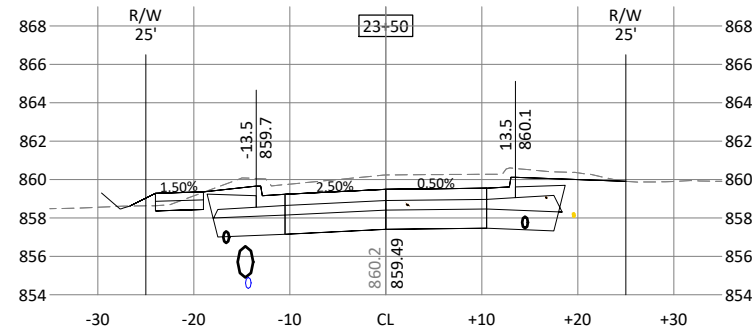
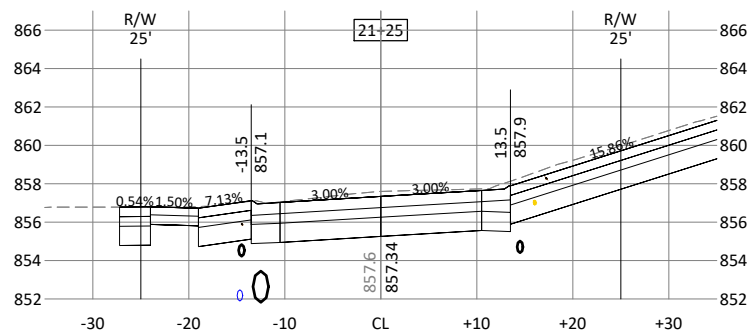
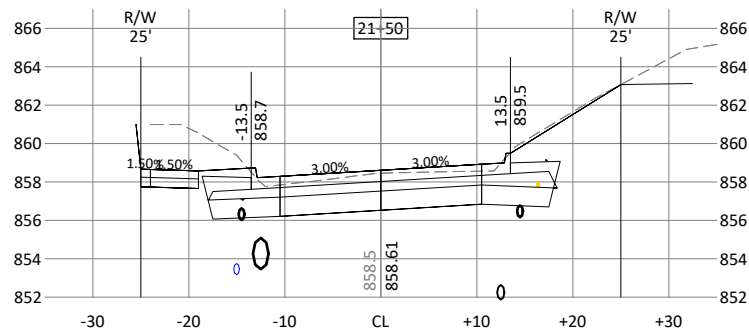
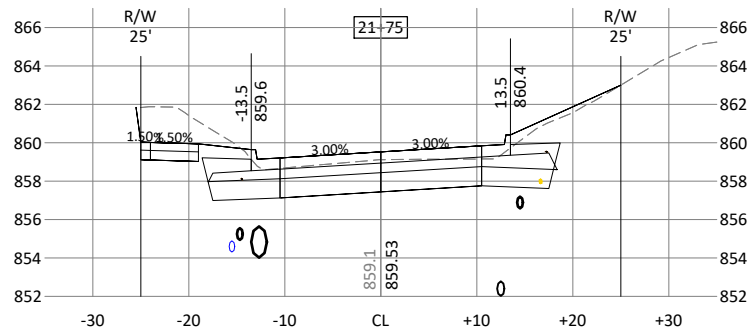
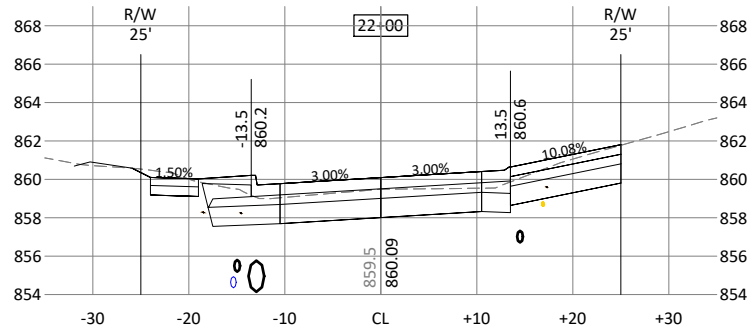
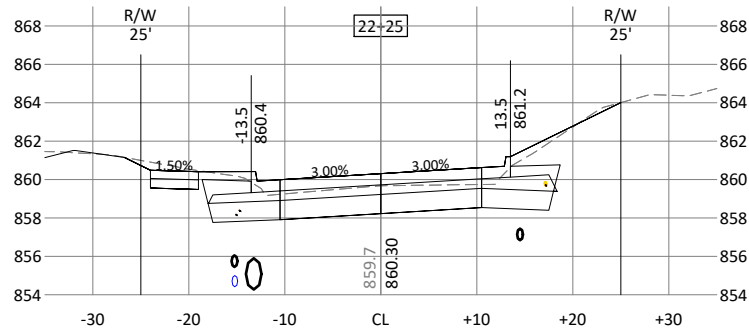
CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

CROSS SECTIONS

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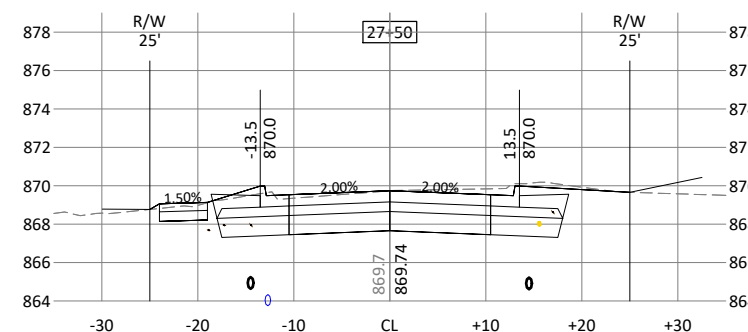
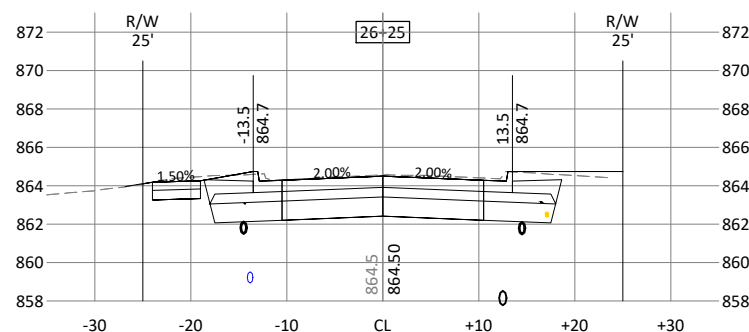
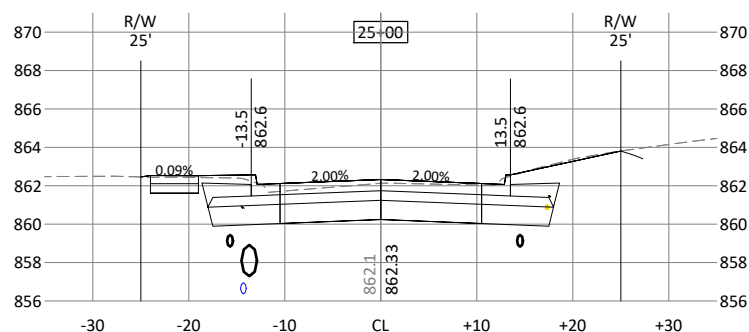
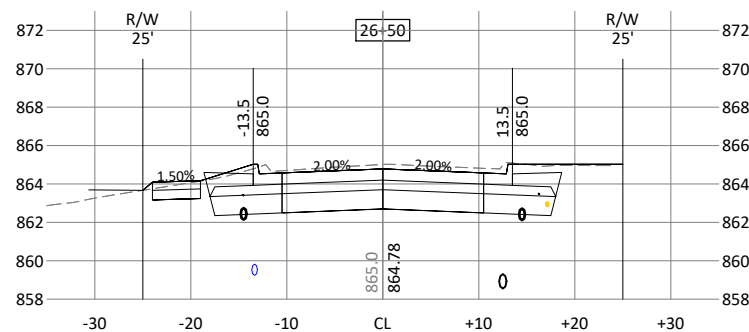
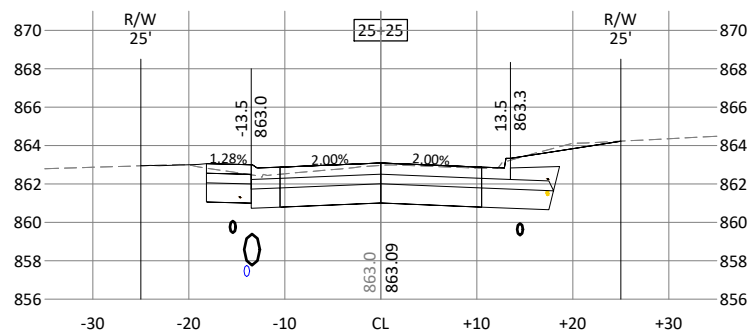
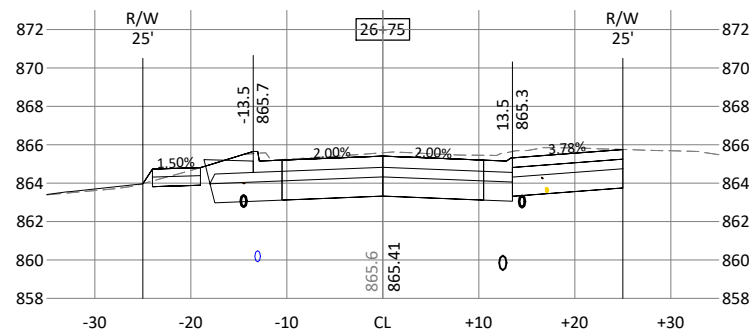
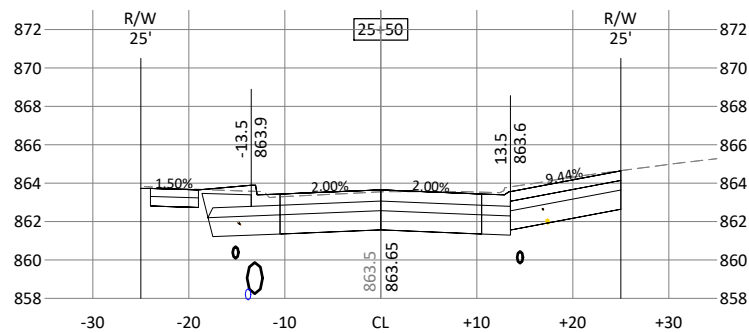
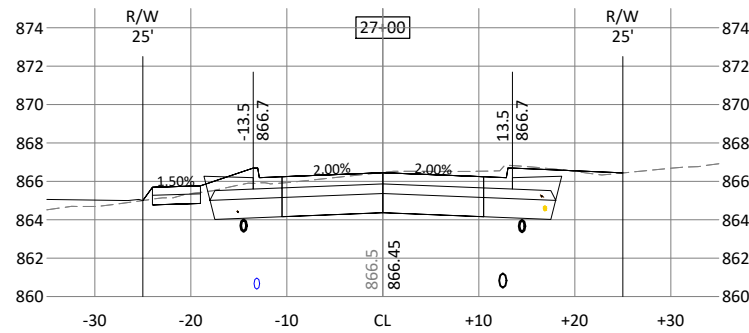
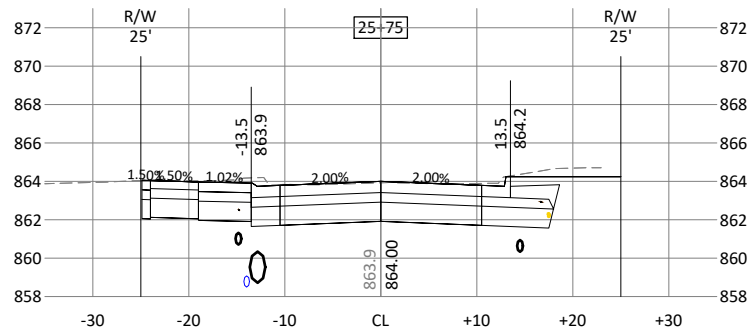
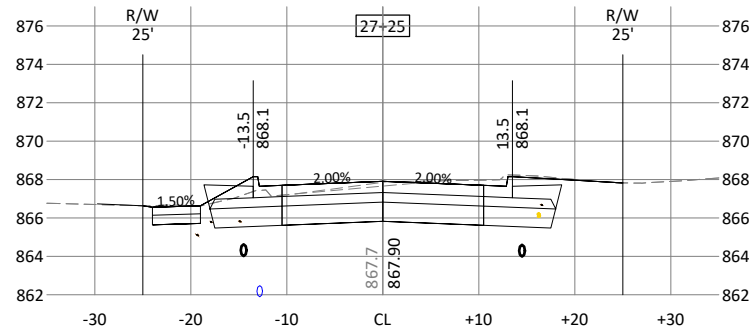
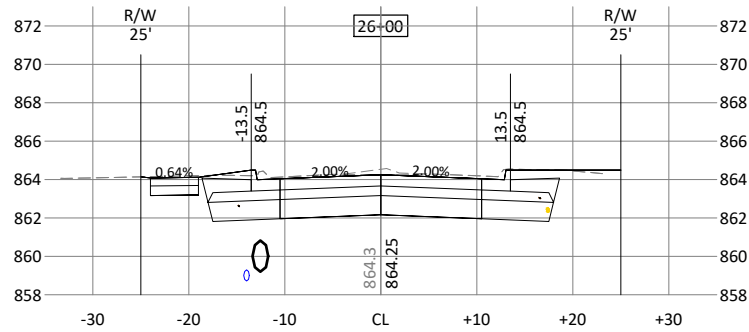
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68TH STREET SOUTH RECONSTRUCTION

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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

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PROJECT MANUAL

68th Street Improvement Project

City of Windsor Heights

Windsor Heights, Iowa

December 2024

BMI Project No. 0A1.133739

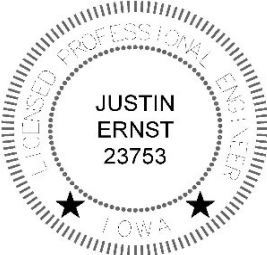


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SECTION 00005 - CERTIFICATION PAGE

PROJECT MANUAL
FOR
68TH STREET IMPROVEMENT PROJECT
CITY OF WINDSOR HEIGHTS
WINDSOR HEIGHTS, IOWA
DECEMBER 2024
BMI PROJECT NO. 0A1.133739

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. _____ Date: _____ Justin Ernst License No. 23753 My renewal date is December 31, 2025 Pages or sheets covered by this seal: _____
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SECTION 00010 - TABLE OF CONTENTS

68th Street Improvement Project
City of Windsor Heights

CONTRACT DOCUMENTS:

PROJECT MANUAL:

Introductory Information, Bidding Requirements, Contract Forms and Conditions of Contract

00005 - CERTIFICATION PAGE
00010 - TABLE OF CONTENTS
00100 - NOTICE TO BIDDERS
00110 - NOTICE OF PUBLIC HEARING
00200 - INSTRUCTIONS TO BIDDERS
00410 - PROPOSAL
00420 - BID BOND
00500 - CONTRACT
00610 - PERFORMANCE, PAYMENT AND MAINTENANCE BOND
00800 - SPECIAL PROVISIONS
00900 - NOTICE OF AWARD
00910 - NOTICE TO PROCEED
00920 - LETTER OF TRANSMITTAL

Technical Specifications

Joint Preventative Sealant

Supplemental Specifications
Des Moines Water Works

DRAWINGS (UNDER SEPARATE COVER):

_____ sheets numbered _____ through _____, inclusive, dated _____, 20____, and with each sheet bearing the following general title:

68th Street Improvement Project
City of Windsor Heights

APPENDICES SOIL BORINGS

This project is based on
SUDAS STANDARD SPECIFICATIONS, 2024 EDITION
unless modified herein.

*****END OF SECTION*****

SECTION 00100 - NOTICE TO BIDDERS

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

Receipt and Opening of Sealed Proposals. Sealed proposals for the work comprising the repair or improvement as stated below must be filed before 10:00 A.M. on January 28, 2025 in the office of the City Clerk, 1145 66th Street, Suite 1, Windsor Heights, Iowa 50324. Sealed proposals will be opened and publicly read with bids being tabulated at that time. The results will be reported to the City of Windsor Heights at its meeting at 6:00 P.M. on February 3, 2025, at which time the City Council may take action on the proposals submitted or at such a time as may then be fixed. The City of Windsor Heights City Council reserves the right to reject any or all bids, to waive informalities or technicalities in any bid, and to enter into such contract, or contracts, as it shall deem to be in the best interest of the City of Windsor Heights.

Time for Commencement and Completion of Work. Work on the improvement shall commence upon approval of the contract by the City Council and as stated in the Notice to Proceed. All work under the contract must be complete on or before November 21, 2025. Liquidated damages are as set forth in Section 00500 – Contract.

Bid Security. Each Bidder shall accompany its bid with bid security, as defined in Iowa Code Section 26.8, as security that the successful Bidder will enter into a contract for the work bid upon. The Bidder's security shall be in an amount equal to 5 percent of the total amount of the bid. The bid shall contain no condition except as provided in the specifications. If the Bidder fails to execute the contract and to furnish an acceptable Performance, Payment, and Maintenance Bond or provide a Certificate of Insurance within ten (10) days after acceptance of the bid by the City, the bid security may be forfeited or cashed by the City as liquidated damages.

Contract Documents. Copies of the project documents are available for a price of \$25.00 per set. This fee is refundable, provided the plans and specifications are returned complete and in reusable condition, and they are returned within fourteen (14) calendar days after the award of the project. Please make your check payable to Bolton & Menk, Inc. and send it to 430 E Grand Ave, Suite 101, Des Moines, IA 50309. Complete digital project bidding documents are available at www.bolton-menk.com or www.questcdn.com. You may view the digital plan documents for free by entering QuestCDN Project #9456509 on the website's Project Search page. Documents may be downloaded for \$0.00. Please contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in free membership registration, viewing, downloading, and working with this digital project information.

Preference of Products and Labor. By virtue of statutory authority, a preference will be given to products and provisions grown and coal produced within the State of Iowa, to the extent lawfully required under Iowa statutes.

Sales Tax Exemption Certificates. The Bidder shall not include sales tax in the bid. The City of Windsor Heights will distribute tax exemption certificates and authorization letters to the contractor and all subcontractors who are identified. The contractor and subcontractor may make copies of the tax exemption certificates and provide a copy to each supplier providing construction materials. These tax exemption certificates and authorization letters are applicable only for this specific project under the contract.

PROJECT DESCRIPTION: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between University Avenue and School Street.

The Notice is given by order of the City Council of the City of Windsor Heights.

Adam Strait
City Clerk

SECTION 00110 - NOTICE OF PUBLIC HEARING

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

Public Hearing on Proposed Contract Documents and Estimated Costs for Repair or Improvement. A public hearing will be held by the City of Windsor Heights on the proposed contract documents (plans, specifications and form of contract) and estimated cost for the improvement at its meeting at 6:00 P.M. on February 3, 2025 at 1133 66th Street, Windsor Heights, Iowa 50324.

PROJECT DESCRIPTION: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between University Avenue and School Street.

At said hearing, the City Council will consider the plans, specifications, proposed form of contract, and estimated total cost for the project, the same now being on file in the office of the City Clerk, 1145 66th Street, Suite 1, Windsor Heights, Iowa 50324, reference to which is made for a more detailed and complete description of the proposed improvements, and at said time and place the said City Council will also receive and consider any objections to said plans, specifications, estimate of cost, and form of contract made by any interested party.

SECTION 00200 - INSTRUCTIONS TO BIDDERS

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

The work comprising the above referenced project shall be constructed in accordance with the SUDAS Standard Specifications, 2024 Edition, and as further modified by the supplemental specifications and special provisions included in the contract documents. The terms used in the contract version of the documents are defined in said standard specifications. Before submitting a bid, please review the requirements of Division One, General Provisions and Covenants. Please be certain that all documents have been completed properly, as failure to complete and sign all documents and to comply with the requirements listed below can cause a submitted bid not to be read.

ARTICLE 1—BID SECURITY

- 1.01 The bid security must be in the minimum amount of 5% of the total bid amount including all add alternates (do not deduct the amount of deduct alternates).
- 1.02 Bid security other than said bid bond shall be in accordance with Chapter 26 of the Iowa Code.
- 1.03 Bid security shall be in the form of a cashier's check or certified check drawn on a state chartered or federally chartered bank; or a certified share draft drawn on a state chartered or federally chartered credit union; or a bidder's bond with corporate surety satisfactory to the City of Windsor Heights, hereinafter called the "Jurisdiction".
- 1.04 All signatures on the bid bond must be original signatures in ink; electronic, copies, or facsimile (fax) of any signature on the bid bond is not acceptable.
- 1.05 The bid bond must be submitted on the enclosed Bid Bond form as no other bid bond forms are acceptable.

ARTICLE 2—SUBMISSION OF THE PROPOSAL AND IDENTITY OF BIDDERS

- 2.01 The Proposal shall be sealed in an envelope, properly identified as the "Proposal", with the project title and the name and address of the Bidder. The bid security shall be sealed in a separate envelope identified as the "Bid Security" and attached to the outside of the bid proposal envelope. The Proposal and Bid Security shall be deposited with the Jurisdiction at or before the time and at the place provided in the Notice to Bidders. It is the sole responsibility of the Bidder to see that its proposal is delivered to the Jurisdiction prior to the time for opening bids along with the appropriate bid security. Any proposal received after the scheduled time for the receiving of proposals will be returned to the Bidder unopened and will not be considered.
- 2.02 The following documents shall be completed, signed, and returned in the proposal envelope. The bid cannot be read if any of these documents are omitted from the proposal envelope.
 - A. PROPOSAL – Complete each of the following parts:
 - Part B – Acknowledgment of Addenda, if any have been issued;
 - Part C – Bid Items, Quantities and Prices;
 - Part F – Additional Requirements; and
 - Part G – Identity of Bidder.
- 2.03 Sign the proposal. The signature on the proposal and all proposal attachments must be an original signature in ink signed by the same individual who is the company owner or an authorized officer of the company; copies or facsimile of any signature will not be accepted.
- 2.04 Documents must be submitted as printed. No alterations, additions, or deletions are permitted. If the Bidder notes a requirement in the contract documents which the Bidder believes will require a conditioned or unsolicited alternate bid, the Bidder must immediately notify the Engineer in writing. The Engineer will issue any necessary interpretation by an addendum.

2.05 Division 1 - General Provisions and Covenants of the 2024 SUDAS Standard Specifications is modified as follows:

A. Section 1020.1.09B, Unit Price Attachment.

A computer-generated unit price attachment may be submitted by the Bidder as specified by this section.

ARTICLE 3—PROSECUTION AND PROGRESS OF THE WORK

3.01 The work is located in the City of Windsor Heights.

Work on the improvement shall commence upon approval of the contract by the City Council and as stated in the Notice to Proceed. All work under the contract must be completed as stated in Section 00500 - Contract. Liquidated damages will be assessed as detailed in Section 00500 - Contract.

3.02 Community Events.

Successful Bidder will be required to coordinate with the Jurisdiction and accommodate the Jurisdiction's requirements for the following list of events:

May 2, June 6, August 1, October 3 – Movies in the Park at Colby Park

May 30 – Touch a Truck at Colby Park

August 5 – National Night Out

October 3 & 4 – Fall Fest at Colby Park with parade route on 69th Street

TBD – Spring Cleanup

3.03 Each successful Bidder will be required to furnish a corporate surety bond in an amount equal to 100% of its contract price. Said bond shall be issued by a responsible surety approved by City of Windsor Heights and shall guarantee the faithful performance of the contract, the terms and conditions therein contained, the prompt payment of all material and labor, protect and save harmless the City of Windsor Heights from claims and damages of any kind caused by the operations of the contract, and shall also guarantee the maintenance of the improvement caused by failures in materials and construction for a period of 4 years from and after acceptance of the work.

3.04 The City of Windsor Heights, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42U.S.C. 2000d to 2000d-4 and Title 49 Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-Assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all Bidders that it will affirmatively ensure that with any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

ARTICLE 4—PREFERENCE OF PRODUCTS AND LABOR

4.01 In accordance with Iowa statutes, a resident bidder shall be allowed preference against a nonresident bidder from a state or foreign country provided that state or foreign country gives or requires any preference to bidders from that state or foreign country. This includes, but is not limited to any preference to bidders, the imposition of any type of labor force preference, or any other form of preferential treatment to bidders or laborers from that state or foreign country. The preference allowed shall be equal to the preference given or required by the state or foreign country in which the nonresident bidder is a resident. In the instance of a resident labor force preference, a nonresident bidder shall apply the same resident labor force preference to a public improvement in this state as would be required in the construction of a public improvement by the state or foreign country in which the nonresident bidder is a resident. If it is determined that this may cause denial of federal funds which would otherwise be available or would otherwise be inconsistent with requirements of any federal law or regulation, this resident bidder preference shall be suspended, but only to the extent necessary to prevent denial of the funds or to eliminate the inconsistency with federal requirements.

ARTICLE 5—TAXES

- 5.01 The City will issue a sales tax exemption certificate and authorization letters to the contractor and all subcontractors for all materials purchased on the project. Tax exemption certificates are applicable only for the specific project for which the tax exemption certificate is issued.
- 5.02 The contractor shall provide a listing to the City identifying all appropriate subcontractors qualified for use of the tax exemption certificate. The contractor and subcontractors may make copies of the certificate and provide to each supplier providing construction material.
- 5.03 Income Tax:
 - A. Successful Bidder is subject to payment of Iowa income tax on income from this work in amounts prescribed by law.
 - B. If successful Bidder is a non-Iowa partnership, individual, or association, Bidder shall furnish evidence prior to execution of contract that bond or securities have been posted with the Iowa Department of Revenue in the amount required by law.

******END OF SECTION******

SECTION 00410 - PROPOSAL

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

PROPOSAL: PART A – SCOPE

The City of Windsor Heights, hereinafter called the "Jurisdiction", has need of a qualified contractor to complete the work comprising of the below referenced repair or improvement. The undersigned Bidder hereby proposes to complete the work comprising of the below referenced repair or improvement as specified in the contract documents, which are officially on file with the Jurisdiction, in the office of the Mayor, at the prices hereinafter provided in Part C of the Proposal, for the improvements on the 68th Street Improvement Project.

PROPOSAL: PART B – ACKNOWLEDGMENT OF ADDENDA

The Bidder hereby acknowledges that all addenda become a part of the contract documents when issued and that each such addendum has been received and utilized in the preparation of this bid. The Bidder hereby acknowledges receipt of the following addenda by inserting the number of each addendum in the blanks below:

ADDENDUM NUMBER _____

ADDENDUM NUMBER _____

ADDENDUM NUMBER _____

ADDENDUM NUMBER _____

and certifies that said addenda were utilized in the preparation of this bid.

PROPOSAL: PART C – BID ITEMS AND QUANTITIES

UNIT PRICE CONTRACTS: The Bidder must provide the Unit Bid Price, the Total Bid Price, any Alternate Prices, and the Total Construction Costs on the Proposal Attachment: Part C – Bid Items and Quantities. In case of discrepancy, the Unit Bid Price governs. The quantities shown on the Proposal Attachment: Part C – Bid Items and Quantities are approximate only, but are considered sufficiently adequate for the purpose of comparing bids.

SEE INCLUDED PROPOSAL ATTACHMENT

PROPOSAL: PART D – GENERAL

The Bidder hereby acknowledges that the Jurisdiction, in advertising for public bids for this project reserves the right to:

1. Reject any or all bids. Award of the contract, if any, to be to the lowest responsible, responsive Bidder; and
2. Reject any or all alternates in determining the items to be included in the contract. Designation of the lowest responsible, responsive Bidder to be based on comparison of the total bid only, not including any alternates; and
3. Make such alterations in the contract documents or in the proposal quantities as it determines necessary in accordance with the contract documents after execution of the contract. Such alterations shall not be considered a waiver of any conditions of the contract documents, and shall not invalidate any of the provisions thereof; and

The Bidder hereby agrees to:

1. Enter into a contract, if this proposal is selected, in the form approved by the Jurisdiction, provide proof of registration with the Iowa Division of Labor in accordance with Chapter 91C of the Iowa Code, and furnish a performance, maintenance, and payment bond; and
2. Forfeit bid security, not as a penalty but as liquidated damages, upon failure to enter into such contract and/or to furnish said bond; and
3. Commence the work upon written Notice to Proceed; and
4. Complete the work in accordance with the completion dates defined in Section 00500 – Contract; and
5. Pay liquidated damages for noncompliance with said completion provisions at the rate detailed in Section 00500 – Contract for each calendar day thereafter that the work remains incomplete.

PROPOSAL: PART E – NON-COLLUSION AFFIDAVIT

The Bidder hereby certifies:

1. That this proposal is not affected by, contingent on, or dependent on any other proposal submitted for any improvement with the Jurisdiction; and
2. That no individual employed by the Bidder has employed any person to solicit or procure the work on this project, nor will any employee of the Bidder make any payment or agreement for payment of any compensation in connection with the procurement of this project; and
3. That no part of the bid price received by the Bidder was or will be paid to any person, corporation, firm, association, or other organization for soliciting the bid, other than the payment of their normal compensation to persons regularly employed by the Bidder whose services in connection with the construction of the project were in the regular course of their duties for the Bidder; and
4. That this proposal is genuine and not collusive or sham; that the Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any Bidder or person, to submit a sham bid or to refrain from bidding; and
5. That the bid has not in any manner, directly or indirectly, sought, by agreement or collusion, or communication or conference, with any person, to fix the bid price of the Bidder or of any other Bidder; and
6. That all statements in this proposal are true; and
7. That the individual(s) executing this proposal have the authority to execute this proposal on behalf of the Bidder.

PROPOSAL: PART F – ADDITIONAL REQUIREMENTS

The Bidder hereby agrees to comply with the additional requirements listed below which are included in this proposal and identified as proposal attachments:

ITEM NO.	DESCRIPTION OF ATTACHMENT
1.	None

PROPOSAL: PART G - IDENTITY OF BIDDER

The Bidder shall indicate whether the bid is submitted by a/an:

☐ Individual,
Sole Proprietorship

Bidder

☐ Partnership

Signature

☐ Corporation

Name (Print/Type)

☐ Limited Liability Company

Title

☐ Joint-Venture; all parties must join-in and
execute all documents

Street Address

☐ Other

City, State, Zip Code

Telephone Number

The Bidder shall enter its
Public Registration Number

E-Mail Address

issued by the Iowa Commissioner of Labor
Pursuant Section 91C.5 of the Iowa Code.

**Type or print the name and title of the company's
owner, president, CEO, etc. if a different person
than entered above.**

Failure to provide said Registration
Number shall result in the bid being read
under advisement. A contract will not be
executed until the contractor is registered.

Name

Title

NOTE: The signature on this proposal must be an original signature in ink; copies, facsimiles, or electronic signatures will not be accepted.

All bidders must submit the following completed form to the governmental body requesting bids per 875 Iowa Administrative Code Chapter 156.

BIDDER STATUS FORM

To be completed by all bidders.

Part A

Please answer "Yes" or "No" for each of the following:

- ☐ Yes ☐ No My company is authorized to transact business in Iowa.
(To help you determine if your company is authorized, please review the worksheet on the next page).
- ☐ Yes ☐ No My company has an office to transact business in Iowa.
- ☐ Yes ☐ No My company's office in Iowa is suitable for more than receiving mail, telephone calls, and e-mail.
- ☐ Yes ☐ No My company has been conducting business in Iowa for at least 3 years prior to the first request for bids on this project.
- ☐ Yes ☐ No My company is not a subsidiary of another business entity, or my company is a subsidiary of another business entity that would qualify as a resident bidder in Iowa.
- If you answered "Yes" for each question above, your company qualifies as a resident bidder. Please complete Parts B and D of this form.
- If you answered "No" to one or more questions above, your company is a non-resident bidder. Please complete Parts C and D of this form.

To be completed by resident bidders.

Part B

My company has maintained offices in Iowa during the past 3 years at the following addresses:

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

You may attach additional sheet(s) if needed.

To be completed by non-resident bidders.

Part C

- Name of home state or foreign country reported to the Iowa Secretary of State: _____
- Does your company's home state or foreign country offer preferences to bidders who are residents? ☐ Yes ☐ No
- If you answered "Yes" to question 2, identify each preference offered by your company's home state or foreign country and the appropriate legal citation.

You may attach additional sheet(s) if needed.

To be completed by all bidders.

Part D

I certify that the statements made on this document are true and complete to the best of my knowledge and I know that my failure to provide accurate and truthful information may be reason to reject my bid.

Firm Name: _____

Signature: _____ Date: _____

WORKSHEET: AUTHORIZATION TO TRANSACT BUSINESS

This worksheet may be used to help complete Part A of the Resident Bidder Status form. If at least one of the following describes your business, you are authorized to transact business in Iowa.

- ☐ Yes ☐ No My business is currently registered as a contractor with the Iowa Division of Labor.
- ☐ Yes ☐ No My business is a sole proprietorship, and I am an Iowa resident for Iowa income tax purposes.
- ☐ Yes ☐ No My business is a general partnership or joint venture. More than 50 percent of the general partners or joint venture parties are residents of Iowa for Iowa income tax purposes.
- ☐ Yes ☐ No My business is an active corporation with the Iowa Secretary of State and has paid all fees required by the Secretary of State, has filed its most recent biennial report, and has not filed articles of dissolution.
- ☐ Yes ☐ No My business is a corporation whose articles of incorporation are filed in a state other than Iowa, the corporation has received a certificate of authority from the Iowa Secretary of State, has filed its most recent biennial report with the Secretary of State, and has neither received a certificate of withdrawal from the Secretary of state nor had its authority revoked.
- ☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in this state and the statement has not been canceled.
- ☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in a state other than Iowa, has filed a statement of foreign qualification in Iowa and a statement of cancellation has not been filed.
- ☐ Yes ☐ No My business is a limited partnership or limited liability limited partnership which has filed a certificate of limited partnership in this state and has not filed a statement of termination.
- ☐ Yes ☐ No My business is a limited partnership or a limited liability limited partnership whose certificate of limited partnership is filed in a state other than Iowa, the limited partnership or limited liability limited partnership has received notification from the Iowa Secretary of state that the application for certificate of authority has been approved and no notice of cancellation has been filed by the limited partnership or the limited liability limited partnership.
- ☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in Iowa and has not filed a statement of termination.
- ☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in a state other than Iowa, has received a certificate of authority to transact business in Iowa and the certificate has not been revoked or canceled.

PROPOSAL ATTACHMENT: PART C – BID ITEMS AND QUANTITIES

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

This is a UNIT PRICE CONTRACT. The Bidder must provide the Unit Bid Price, the Total Bid Price, any Alternate Prices, and the Total Construction Costs on the Proposal Attachment: Part C – Bid Items and Quantities. In case of discrepancy, the Unit Bid Price governs. The quantities shown on the Proposal Attachment: Part C – Bid Items and Quantities are approximate only, but are considered sufficiently adequate for the purpose of comparing bids.

ESTIMATED PROJECT QUANTITIES							
Item No.	Item Code	Item	Unit	City Quantity	DMWW Quantity	Unit Price	Total
1	2010-C	CLEARING AND GRUBBING	LS	1	0	\$	\$
2	2010-D-1	TOPSOIL, ON-SITE	CY	620	0	\$	\$
3	2010-E	EXCAVATION, CLASS 10	CY	700	0	\$	\$
4	2010-F	BELOW GRADE EXCAVATION (CORE OUT)	CY	0	0	\$	\$
5	2010-G	SUBGRADE PREPARATION	SY	8150	0	\$	\$
6	2010-J	SUBBASE, MODIFIED, 6 INCHES	SY	8150	0	\$	\$
7	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	0	0	\$	\$
8	4010-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC TRUSS, 8 INCH	LF	25	0	\$	\$
9	4010-E	SANITARY SEWER SERVICE, PVC, 4 INCH	LF	200	0	\$	\$
10	4010-H	REMOVAL OF SANITARY SEWER SERVICE, ORANGEBURG	LF	0	0	\$	\$
11	4020-A-1	STORM SEWER, TRENCHED, PP, 8 INCH	LF	44	0	\$	\$
12	4020-A-1	STORM SEWER, TRENCHED, 12 INCH	LF	97	0	\$	\$
13	4020-A-1	STORM SEWER, TRENCHED, 15 INCH	LF	1480	0	\$	\$
14	4020-A-1	STORM SEWER, TRENCHED, 18 INCH	LF	16	0	\$	\$
15	4020-A-1	STORM SEWER, TRENCHED, 36 INCH	LF	46	0	\$	\$
16	4020-A-1	STORM SEWER, TRENCHED, RCP, 37" X 23" ARCH	LF	50	0	\$	\$
17	4020-A-1	STORM SEWER, TRENCHED, RCP, 44" X 27" ARCH	LF	490	0	\$	\$
18	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36"	LF	223	0	\$	\$
19	4040-A	SUBDRAIN, HDPE, 6"	LF	2350	0	\$	\$
20	4040-C-1	SUBDRAIN CLEANOUT, TYPE A-1, 6"	EA	9	0	\$	\$
21	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6"	EA	9	0	\$	\$

Item No.	Item Code	Item	Unit	City Quantity	DMWW Quantity	Unit Price	Total
22	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 6 INCH WITH TRACER WIRE	LF	0	10	\$	\$
23	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE	LF	0	2130	\$	\$
24	SPEC. PROV.	FITTING BY WEIGHT, DUCTILE IRON	LB	0	6700	\$	\$
25	SPEC. PROV.	WATER SERVICE TRANSFER, COPPER, 1 INCH, SAME SIDE	EA	0	23	\$	\$
26	SPEC. PROV.	WATER SERVICE TRANSFER, COPPER, 1 INCH, OPPOSITE SIDE	EA	0	26	\$	\$
27	SPEC. PROV.	WATER MAIN REMOVAL	LF	0	250	\$	\$
28	SPEC. PROV.	VALVE, GATE, 6 INCH	EA	0	1	\$	\$
29	SPEC. PROV.	VALVE, GATE, 8 INCH	EA	0	4	\$	\$
30	SPEC. PROV.	FIRE HYDRANT ASSEMBLY	EA	0	5	\$	\$
31	SPEC. PROV.	FLUSHING DEVICE (BLOW OFF), 2 INCH	EA	0	2	\$	\$
32	SPEC. PROV.	FIRE HYDRANT ASSEMBLY REMOVAL	EA	0	5	\$	\$
33	SPEC. PROV.	VALVE BOX REMOVAL	EA	0	3	\$	\$
34	SPEC. PROV.	TAP FEE, 1", REPLACE TAP FOR WATER SERVICE	EA	0	49	\$	\$
35	SPEC. PROV.	PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE	EA	0	2	\$	\$
36	6010-A	STORM MANHOLE, SW-401, 72 INCH	EA	3	0	\$	\$
37	6010-B	INTAKE, SW-501	EA	3	0	\$	\$
38	6010-B	INTAKE, SW-503	EA	1	0	\$	\$
39	6010-B	INTAKE, SW-505	EA	9	0	\$	\$
40	6010-B	INTAKE, SW-506	EA	1	0	\$	\$
41	6010-B	INTAKE, SW-507	EA	2	0	\$	\$
42	6010-B	18" NYLOPAST DRAIN BASIN	EA	2	0	\$	\$
43	6010-B	INTAKE, SW-516	EA	2	0	\$	\$
44	6010-E	SANITARY MANHOLE ADJUSTMENT, MINOR	EA	6	0	\$	\$
45	6010-F	SANITARY MANHOLE ADJUSTMENT, MAJOR	EA	2	0	\$	\$
46	6010-G	CONNECTION TO EXISTING MANHOLE	EA	1	0	\$	\$
47	6010-H	REMOVE INTAKE	EA	10	0	\$	\$
48	7010-A	PAVEMENT, PCC, 7 INCH	SY	6520	0	\$	\$

Item No.	Item Code	Item	Unit	City Quantity	DMWW Quantity	Unit Price	Total
49	7030-A-1	REMOVAL OF SIDEWALK	SY	100	0	\$	\$
50	7030-A-3	REMOVAL OF DRIVEWAY	SY	1160	0	\$	\$
51	7030-E	SIDEWALK, PCC, 4 INCH	SY	960	0	\$	\$
52	7030-E	SIDEWALK, PCC, 6 INCH	SY	120	0	\$	\$
53	7030-G	DETECTABLE WARNING	SF	110	0	\$	\$
54	7030-H-1	DRIVEWAY, PAVED, PCC, 6 INCH	SY	1900	0	\$	\$
55	7040-H	PAVEMENT REMOVAL	SY	6210	0	\$	\$
56	8020-B	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	STA	1.5	0	\$	\$
57	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1	0	\$	\$
58	8040-A	TRAFFIC SIGNS, TYPE A	EA	8	0	\$	\$
59	8040-D	PERFORATED SQUARE STEEL TUBE POSTS	EA	8	0	\$	\$
60	9010-D	WATERING	MGAL	30	0	\$	\$
61	9020-A	SOD	SQ	250	0	\$	\$
62	9030-B	PLANTS WITH WARRANTY, ORNAMENTAL TREE	EA	2	0	\$	\$
63	9030-B	PLANTS WITH WARRANTY, DECIDUOUS TREE	EA	2	0	\$	\$
64	9040-A-1	SWPPP PREPARATION	LS	1	0	\$	\$
65	9040-A-2	SWPPP MANAGEMENT	LS	1	0	\$	\$
66	9040-D-1	FILTER SOCK, 9 INCH	LF	4400	0	\$	\$
67	9040-O-1	STABILIZED CONSTRUCTION ENTRANCE	SY	300	0	\$	\$
68	9040-Q-2	EROSION CONTROL MULCHING, HYDRO MULCHING	AC	1	0	\$	\$
69	9040-T-1	INLET PROTECTION DEVICE, MAINTENANCE, AND REMOVAL	EA	34	0	\$	\$
70	9070-A	MODULAR BLOCK RETAINING WALL	SF	900	0	\$	\$
71	11020-A	MOBILIZATION	LS	1	0	\$	\$
72	11030-A	MAINTENANCE OF POSTAL SERVICE	LS	1	0	\$	\$
73	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	0	\$	\$
BID TOTAL:							\$

NOTE: IT IS UNDERSTOOD THAT THE ABOVE QUANTITIES ARE ESTIMATED FOR THE PURPOSE OF THIS BID. ALL QUANTITIES ARE SUBJECT TO REVISION BY THE JURISDICTION AS NOTED IN SECTION 00500 - "CONTRACT" OF THIS PROJECT MANUAL.

Bidder Name

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SECTION 00420 - BID BOND

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

KNOW ALL BY THESE PRESENTS:

That we, _____, as Principal, and _____, as Surety, are held and firmly bound unto, City of Windsor Heights as Obligee, (hereinafter referred to as "the Jurisdiction"), in the penal sum of _____ dollars (\$ _____), lawful money of the United States, for which payment said Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the Jurisdiction a certain proposal, in a separate envelope, and hereby made a part hereof, to enter into a contract in writing, for the following project:

Project Title: 68th Street Improvement Project

Project Description: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between University Avenue and School Street.

The Surety hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Jurisdiction may accept such bid or execute such Contract; and said Surety does hereby waive notice of any such extension.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Polk County, State of Iowa. If legal action is required by the Jurisdiction against the Surety or Principal to enforce the provisions of the bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Surety or Principal agrees to pay the Jurisdiction all damages, costs, and attorney fees incurred by enforcing any of the provisions of this Bond. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers, and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against Surety for any amount guaranteed hereunder whether action is brought against Principal or whether Principal is joined in any such action or actions or not.

NOW, THEREFORE, if said proposal by the Principal be accepted, and the Principal shall enter into a contract with Jurisdiction in accordance with the terms of such proposal, including the provision of insurance and of a bond as may be specified in the contract documents, with good and sufficient surety for the faithful performance of such contract, for the prompt payment of labor and material furnished in the prosecution thereof, and for the maintenance of said improvements as may be required therein, then this obligation shall become null and void; otherwise, the Principal shall pay to the Jurisdiction the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

Signed and sealed this _____ day of _____, 20_____.

SURETY:

PRINCIPAL:

Surety Company

Bidder

By:

Signature Attorney-in-Fact/Officer

By:

Signature

Name of Attorney-in-Fact/Officer

Name (Print/Type)

Company Name

Title

Company Address

Address

City, State, Zip Code

City, State, Zip Code

Company Telephone Number

Telephone Number

Company E-Mail

E-Mail

NOTE: All signatures on this bid bond must be original signatures in ink; electronic, copies or facsimile of any signature will not be accepted. This bond must be sealed with the Surety's raised, embossing seal or official adhesive seal. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal or official adhesive seal.

SECTION 00500 - CONTRACT

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

THIS CONTRACT, made and entered into this _____ day of _____, 20____, by and between the City of Windsor Heights hereinafter called the "Jurisdiction", and _____, hereinafter called the "Contractor".

WITNESSETH:

The Contractor hereby agrees to complete the work comprising the 68th Street Improvement Project as specified in the contract documents, which are officially on file with the Jurisdiction, in the office of the City Clerk, City of Windsor Heights, 1145 66th Street, Suite 1, Windsor Heights, Iowa. This Contract includes all such contract documents. All work under this Contract shall be constructed in accordance with the SUDAS Standard Specifications, 2024 Edition and as further modified by the Special Provisions, Technical Specifications and Supplemental Specifications included in said contract documents and the Contract Attachment which is attached hereto. The Contractor further agrees to complete the work in strict accordance with said contract documents, and to guarantee the work as required by law for the time required in said contract documents after its acceptance by the Jurisdiction.

This Contract is awarded and executed for completion of the work specified in the contract documents for the bid prices shown on the Contract Attachment: Bid Items and Quantities which were proposed by the Contractor in its Proposal submitted in accordance with the Notice to Bidders and Notice of Public Hearing for the following project:

Project Title: 68th Street Improvement Project

Project Description: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between Universtiy Avenue and School Street.

The Contractor agrees to perform said work for and in consideration of the Jurisdiction's payment of the bid amount of _____ dollars (\$ _____), which amount shall constitute the required amount of the Performance, Payment and Maintenance Bond. The Contractor hereby agrees to commence work as stated in the written Notice to Proceed; and substantially complete the work in accordance with the following contract provisions:

CONTRACT PROVISIONS

- A. Completion Date: Date
 - 1. The work will be substantially completed on or before 11/21/2025, and completed and ready for final payment in accordance with General Conditions on or before 5/29/2026.
- B. Liquidated Damages
 - 1. Pay liquidated damages for noncompliance with said completion provisions in the amount of Five Hundred Dollars (\$500.00) for each calendar day the work remains incomplete.
- C. Maintenance Bond & Warranty
 - 1. To remedy any and all defects that may develop in or result from work to be performed under the Contract within the City of Windsor Heights, from the date of acceptance of the work under the Contract, by reason of defects in workmanship or materials used in construction of said work.

2. Shall also guarantee the maintenance of the improvement caused by failures in materials and construction for a period of 4 years from and after acceptance of the work.

D. Bid Quantity Revisions

1. All quantities are estimates and subject to revision by the Jurisdiction.
2. Quantity changes that do not materially change the character of the work to be performed and amount to less than Twenty (20) percent of a given bid item or less than Five (5) percent of the total contract amount shall not affect the unit price bid.

IN WITNESS WHEREOF, the Parties hereto have executed this instrument, in triplicate on the date first shown written.

JURISDICTION: City of Windsor Heights

CONTRACTOR:

By: _____
Mike Jones, Mayor

Company Name

(Seal)
ATTEST:

Signature

By: _____
Adam Strait, City Clerk

Name (Print/Type)

Title

Street Address

City, State, Zip Code

Telephone

E-Mail

CONTRACTOR PUBLIC REGISTRATION INFORMATION to be Provided By:

1. All Contractors: The Contractor shall enter its Public Registration No. _____ issued by the Iowa Commissioner of Labor pursuant to Section 91C.5 of the Iowa Code.
2. Out-of-State Contractors:
 - A. Pursuant to Section 91C.7 of the Iowa Code, an out-of-state contractor, before commencing a contract in excess of five thousand dollars in value in Iowa, shall file a bond with the division of labor services of the department of workforce development. The Contractor should contact 515-242-5871 for further information. Prior to contract execution, the Jurisdictional Engineer may forward a copy of this contract to the Iowa Department of Workforce Development as notification of pending construction work. It is the Contractor's responsibility to comply with said Section 91C.7 before commencing this work.
 - B. Prior to entering into contract, the designated low bidder, if it is a corporation organized under the laws of a state other than Iowa, shall file with the Jurisdictional Engineer a certificate from the Secretary of the State of Iowa showing that it has complied with all the provisions of Chapter 490 of the Code of Iowa, as amended, governing foreign corporations. For further information contact the Iowa Secretary of State Office at 515-281-5204.

Bond No. _____
Name of Surety _____

NOTE: All signatures on this contract must be original signatures in ink; electronic, copies or facsimile of any signature will not be accepted.

CORPORATE ACKNOWLEDGMENT

State of _____)
) SS
_____ County)

On this _____ day of _____, 20_____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ and _____, to me known, who, being by me duly sworn, did say that they are the _____, and _____, respectively, of the corporation executing the foregoing instrument; that (no seal has been procured by) (the seal affixed thereto is the seal of) the corporation; that said instrument was signed (and sealed) on behalf of the corporation by authority of the Board of Directors; that _____ and _____ acknowledged the execution of the instrument to be the voluntary act and deed of the corporation, by it and by them voluntarily executed.

Notary Public in and for the State of _____
My commission expires _____, 20_____

PARTNERSHIP ACKNOWLEDGMENT

State of _____)
) SS
_____ County)

On this _____ day of _____, 20_____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ to me personally known, who being by me duly sworn, did say that the person is one of the partners of _____, a partnership, and that the instrument was signed on behalf of the partnership by authority of the partners and the partner acknowledged the execution of the instrument to be the voluntary act and deed of the partnership by it and by the partner voluntarily executed.

Notary Public in and for the State of _____
My commission expires _____, 20_____

INDIVIDUAL ACKNOWLEDGMENT

State of _____)
) SS
_____ County)

On this _____ day of _____, 20_____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ and _____, to me known to be the identical person(s) named in and who executed the foregoing instrument, and acknowledged that (he) (she) (they) executed the instrument as (his) (her) (their) voluntary act and deed.

Notary Public in and for the State of _____
My commission expires _____, 20_____

LIMITED LIABILITY COMPANY ACKNOWLEDGMENT

State of _____)
) SS
_____ County)

On this _____ day of _____, 20_____, before me a Notary Public in and for said State, personally appeared _____, to me personally known, who being by me duly sworn did say that person is _____ of said _____, that (the seal affixed to said instrument is the seal of said _____ OR no seal has been procured by the said) _____, and that said instrument was signed and sealed on behalf of the said _____, by authority of its managers and the said _____ acknowledged the execution of said instrument to be the voluntary act and deed of said _____, by it voluntarily executed.

Notary Public in and for the State of _____
My commission expires _____, 20_____

CONTRACT ATTACHMENT: ITEM 1: GENERAL – NONE

CONTRACT ATTACHMENT: ITEM 2: BID ITEMS AND, QUANTITIES

THIS CONTRACT IS AWARDED AND EXECUTED FOR COMPLETION OF THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS FOR THE BID PRICES TABULATED BELOW AS PROPOSED BY THE CONTRACTOR IN ITS PROPOSAL SUBMITTED IN ACCORDANCE WITH NOTICE TO BIDDERS AND NOTICE OF PUBLIC HEARING. ALL QUANTITIES ARE SUBJECT TO REVISION BY THE JURISDICTION. THE JURISDICTION RESERVES THE RIGHT TO ADJUST QUANTITIES AS NECESSARY TO MAXIMIZE FUNDS BUDGETED FOR THIS PROJECT AS NOTED IN SECTION 00500 – CONTRACT.

[Insert Schedule of Unit Prices Standard Table Format]

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SECTION 00610 - PERFORMANCE, PAYMENT AND MAINTENANCE BOND

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

KNOW ALL BY THESE PRESENTS:

That we, _____, as Principal (hereinafter the "Contractor" or "Principal") and _____, as Surety are held and firmly bound unto _____, as Oblige (hereinafter referred to as "the Jurisdiction"), and to all persons who may be injured by any breach of any of the conditions of this Bond in the penal sum of _____ DOLLARS (\$ _____), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, legal representatives and assigns, jointly or severally, firmly by these presents.

The conditions of the above obligations are such that whereas said Contractor entered into a contract with the Jurisdiction, bearing date the _____ day of _____, hereinafter the "Contract" wherein said Contractor undertakes and agrees to construct the 68th Street Improvement Project, Windsor Heights, Iowa.

Project Description: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between Universtiy Avenue and School Street.

And to faithfully perform all the terms and requirements of said Contract within the time therein specified, in a good and workmanlike manner, and in accordance with the Contract documents. Provided, however, that one year after the date of acceptance as complete of the work under the above referenced Contract, the maintenance portion of this Bond shall continue in force for the stated maintenance period.

It is expressly understood and agreed by the Contractor and Surety in this Bond that the following provisions are a part of this Bond and are binding upon said Contractor and Surety, to-wit:

PERFORMANCE: The Contractor shall well and faithfully observe, perform, fulfill, and abide by each and every covenant, condition, and part of said Contract and Contract Documents, by reference made a part hereof, for the above referenced improvements and shall indemnify and save harmless the Jurisdiction from all outlay and expense incurred by the Jurisdiction by reason of the Contractor's default of failure to perform as required. The Contractor shall also be responsible for the default or failure to perform as required under the Contract and Contract Documents by all its subcontractors, suppliers, agents, or employees furnishing materials or providing labor in the performance of the Contract.

PAYMENT: The Contractor and the Surety on this Bond are hereby agreed to pay all just claims submitted by persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the performance of the Contract on account of which this Bond is given, including but not limited to claims for all amounts due for labor, materials, lubricants, oil, gasoline, repairs on machinery, equipment and tools, consumed or used by the Contractor or any subcontractor, wherein the same are not satisfied out of the portion of the contract price which the Jurisdiction is required to retain until completion of the improvement, but the Contractor and Surety shall not be liable to said persons, firms, or corporations unless the claims of said claimants against said portion of the contract price shall have been established as provided by law. The Contractor and Surety hereby bind themselves to the obligations and conditions set forth in Chapter 573, Code of Iowa, which by this reference is made a part hereof as though fully set out herein.

MAINTENANCE: The Contractor and the Surety on this Bond hereby agree, at their own expense:

To remedy any and all defects that may develop in or result from work to be performed under the Contract as detailed in Section 00500 - Contract, from the date of acceptance of the work under the Contract, by reason of defects in workmanship or materials used in construction of said work;

To keep all work in continuous good repair; and

To pay the Jurisdiction's reasonable costs of monitoring and inspection to assure that any defects are remedied and to repay the Jurisdiction all outlay and expense incurred as a result of Contractor's and Surety's failure to remedy any defect as required by this section.

Maintenance Bond requirements shall not apply to the following: work that is not permanently incorporated into the project; pavement markings, seeding, sodding, and plant material and planting.

Contractor's and Surety's agreement herein made extends to defects in workmanship or materials not discovered or known to the Jurisdiction at the time such work was accepted.

GENERAL: Every Surety on this Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

To consent without notice to any extension of time to the Contractor in which to perform the Contract;

To consent without notice to any change in the Contract or Contract Documents, which thereby increases the total contract price and the penal sum of this Bond, provided that all such changes do not, in the aggregate, involve an increase of more than twenty percent of the total contract price, and that this Bond shall then be released as to such excess increase; and

To consent without notice that this Bond shall remain in full force and effect until the Contract is completed, whether completed within the specified contract period, within an extension thereof, or within a period of time after the contract period has elapsed and the liquidated damage penalty is being charged against the Contractor.

The Contractor and every Surety on the Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

That no provision of this Bond or of any other contract shall be valid which limits to less than five years after the acceptance of the work under the Contract the right to sue on this Bond.

That as used herein, the phrase "all outlay and expense" is not to be limited in any way, but shall include the actual and reasonable costs and expenses incurred by the Jurisdiction including interest, benefits and overhead where applicable. Accordingly, "all outlay and expense" would include but not be limited to all contract or employee expense, all equipment usage or rental, materials, testing, outside experts, attorney's fees (including overhead expenses of the Jurisdiction's staff attorneys), and all costs and expenses of litigation as they are incurred by the Jurisdiction. It is intended the Contractor and Surety will defend and indemnify the Jurisdiction on all claims made against the Jurisdiction on account of Contractor's failure to perform as required in the Contract and Contract Documents, that all agreements and promises set forth in the Contract and Contract Documents, in approved change orders, and in this Bond will be fulfilled, and that the Jurisdiction will be fully indemnified so that it will be put into the position it would have been in had the Contract been performed in the first instance as required.

In the event the Jurisdiction incurs any "outlay and expense" in defending itself with respect to any claim as to which the Contractor or Surety should have provided the defense, or in the enforcement of the promises given by the Contractor in the Contract, Contract Documents, or approved change orders, or in the enforcement of the promises given by the Contractor and Surety in this Bond, the Contractor and Surety agree that they will make the Jurisdiction whole for all such outlay and expense, provided that the Surety's obligation under this Bond shall not exceed 125% of the penal sum of this Bond.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Polk County, State of Iowa. If legal action is required by the Jurisdiction to enforce the provisions of this Bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Contractor and the Surety agree, jointly and severally, to pay the Jurisdiction all outlay and expense incurred therefor by the Jurisdiction. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers

and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against surety for any amount guaranteed hereunder whether action is brought against the Contractor or whether Contractor is joined in any such action(s).

NOW THEREFORE, the condition of this obligation is such that if said Principal shall faithfully perform all the promises of the Principal, as set forth and provided in the Contract, in the Contract Documents, and in this Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect.

When a work, term, or phrase is used in this Bond, it shall be interpreted or construed first as defined in this Bond, the Contract, or the Contract Documents; second, if not defined in the Bond, Contract, or Contract Documents, it shall be interpreted or construed as defined in applicable provisions of the Iowa Code; third, if not defined in the Iowa Code, it shall be interpreted or construed according to its generally accepted meaning in the construction industry; and fourth, if it has no generally accepted meaning in the construction industry, it shall be interpreted or construed according to its common or customary usage.

Failure to specify or particularize shall not exclude terms or provisions not mentioned and shall not limit liability hereunder. The Contract and Contract Documents are hereby made a part of this Bond.

Project No. _____

(CON'T – PERFORMANCE, PAYMENT AND MAINTENANCE BOND)

Witness our hands, in triplicate, this _____ day of _____, 20____.

SURETY:

PRINCIPAL:

Surety Company

By: _____
Signature of Attorney-in-Fact/Officer

Name of Attorney-in-Fact/Officer

Company Name

Company Address

City, State, Zip Code

Company Telephone Number

Company E-Mail

Bidder

By: _____
Signature

Name (Print/Type)

Title

Address

City, State, Zip Code

Telephone Number

E-Mail

NOTE:

1. All signatures on this Performance, Maintenance & Payment Bond must be original signatures in ink; electronic, copies, or facsimile of any signature will not be accepted.
2. This Bond must be sealed with the Surety's raised, embossing seal or official adhesive seal.
3. The Certificate or Power of Attorney accompanying this Bond must be valid on its face and sealed with the Surety's raised, embossing seal or official adhesive seal.
4. The name and signature of the Surety's Attorney-in-Fact/Officer entered on this Bond must be exactly as listed on the Certificate or Power of Attorney accompanying this Bond.

SECTION 00800 - SPECIAL PROVISIONS

FOR

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

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1) CONTRACT PROVISIONS

a) Completion Date

- i) All work under the Contract must be completed as detailed in Section 00500 – Contract.

b) Liquidated Damage

- i) Damages in the amount as detailed in Section 00500 – Contract will be assessed for each calendar or working day the work remains incomplete.

c) Maintenance Bond & Warranty

- i) To remedy any and all defects as detailed in Section 00500 – Contract.

d) Bid Quantity Revisions

- i) All quantities are estimates and subject to revision by the Jurisdiction.
- ii) Quantity changes that do not materially change the character of the work to be performed and amount to less than Twenty (20) percent of a given bid item or less than Five (5) percent of the total contract amount shall not affect the unit price bid.

2) DEFINITION AND INTENT

a) The Specifications that apply to the materials and construction practices for this project are defined as follows:

- i) The 2024 Edition of the SUDAS Standard Specifications, except as modified by these Special Provisions to the Technical Specifications.
- ii) Omissions of words or phrases such as “the Contractor shall”, “in accordance with”, “shall be”, “as noted on the Plans”, “according to the Plans”, “a”, “an”, “the” and “all” are unintentional; supply omitted words or phrases by inference.
- iii) “Final Acceptance” and “Final Completion” shall mean final approval of the project as defined in SUDAS 1090, 1.08, C.
- iv) “Owner”, “Jurisdiction” and “City” shall mean the City of Windsor Heights, acting through the City Council.
- v) “Person” shall mean any individual, partnership, limited partnership, joint venture, society, association, joint stock company, corporation, limited liability company, estate, receiver, trustee, assignee, or referee, whether appointed by a court or otherwise, and any combination of individuals.
- vi) “Engineer” shall mean the Engineer of Record.
- vii) The intent of the Technical Specifications is to describe the construction desired, performance requirements, and standards of materials and construction.
- viii) “Standard Drawings” shall mean the Figures bound within the SUDAS Standard Specifications and/or the Typical Drawings bound within the Plans.
- ix) “Substantial Completion” shall be as defined by the Iowa Administrative Code Chapter 573.28.
- x) “Work” shall mean the work to be done and the equipment, supplies, and materials to be furnished under the Contract unless some other meaning is indicated by the context.
- xi) “Or equal” shall follow manufacturers names used to establish standards and, if not stated, is implied.

b) Engineer: Bolton & Menk, Inc., 430 E Grand Ave, Suite 101, Des Moines, IA 50309.

3) GENERAL PROVISIONS AND COVENANTS

- a) Division 1 of the General Provisions and Covenants of the 2024 Edition SUDAS Standard Specifications is modified as follows:
 - i) Section 1020.1.09B, Unit Price Attachment.
 - (a) A computer-generated unit price attachment may be submitted by the Bidder as specified by this Section.
 - ii) Section 1050, 1.05 - Shop Drawings, Certificates, and Equipment Lists
 - (a) Electronic submittal of shop drawings will be allowed.
 - (b) If hardcopy submittals are used, the Contractor shall submit a minimum of three (3) copies plus any additional required by the Contractor.
 - iii) Section 1050, 1.15 – Additional Contractor Responsibilities
 - (a) No Changes.

4) WORK REQUIRED

- a) Work under this Contract includes all materials, equipment, transportation, traffic control, and associated work for the construction of the 68th Street Improvement Project as described in the Official Publication.

5) PLANS AND SPECIFICATIONS

- a) The Jurisdiction will furnish five (5) sets of plans and specifications to the Contractor after award of the Contract. The Contractor shall compensate the Jurisdiction for printing costs for additional copies required.
- b) Contractor shall provide one set of plans and specifications for each foreman and superintendent in charge of each crew on the job.

6) SUBMITTALS

- a) Contractor shall provide a construction schedule showing dates of starting and completing various portions of work. Schedule shall be updated as needed or as requested by Engineer due to changes in progress of construction from original schedule. Updates shall be completed within one week of request.
- b) Contractor shall submit the following information for Engineer's review. Three (3) copies plus any additional copies required by Contractor shall be submitted to the Engineer at the preconstruction conference or at least 14 days prior to utilization of the particular item on this project.
 - i) Testing reports.
 - ii) Manufacturer's data for materials that are to be permanently incorporated into the project.
 - iii) Details of proposed methods of any special construction required.
 - iv) Purchase orders and subcontracts without prices.
 - v) Traffic control and staging plan.
 - vi) Such other information as the Engineer may request to ensure compliance with contract documents.
 - vii) List of Subcontractors and Suppliers.

7) STANDARDS AND CODES

- a) Construct improvements with best present day construction practices and equipment.
- b) Conform with and test in accordance with applicable sections of the following standards and codes.
 - i) American Association of State Highway and Transportation Officials (AASHTO).
 - ii) American Society for Testing and Materials (ASTM).

- iii) Iowa Department of Transportation Standard Specifications (Iowa DOT).
- iv) American National Standards Institute (ANSI).
- v) American Water Works Association (AWWA).
- vi) American Welding Society (AWS).
- vii) Federal Specifications (FS).
- viii) Iowa Occupational Safety and Health Act of 1972 (IOSHA).
- ix) Manual of Accident Prevention in Construction by Associated General Contractors of America, Inc. (AGC).
- x) Standards and Codes of the State of Iowa and the ordinances of the Jurisdiction.
- xi) Other standards and codes which may be applicable to acceptable standards of the industry for equipment, materials and installation under the Contract.

8) EMPLOYMENT PRACTICES

- a) Neither the Contractor nor the Contractor's subcontractors shall employ any person whose physical or mental condition is such that their employment will endanger the health and safety of anyone employed on the Project.
- b) The Contractor shall not commit any of the following employment practices and agrees to include the following clauses in any subcontracts:
 - i) To discharge from employment or refuse to hire any individual because of sex, race, color, religion, national origin, sexual orientation, marital status, age, or disability unless such disability is related to job performance of such person or employee.
 - ii) To discriminate against any individual in terms, conditions, or privileges or employment because of sex, race, color, religion, national origin, sexual orientation, marital status, age, or disability unless such disability is related to job performance of such person or employee.

9) RESPONSIBILITY OF CONTRACTOR

- a) Contractor shall provide supervision of the work.
- b) Contractor shall provide protection of all property from injury or loss resulting from construction operations.
- c) Contractor shall replace or repair objects sustaining any such damage, injury, or loss, to the satisfaction of the Jurisdiction and Engineer.
- d) Contractor shall cooperate with Jurisdiction, Engineer, and representatives of utilities in locating underground utility lines and structures. Incorrect, inaccurate, or inadequate information concerning location of utilities or structures shall not relieve the Contractor of responsibility for damage thereto caused by construction operations.
- e) Contractor shall keep cleanup current with construction operations.
- f) Contractor shall comply with all Federal, State of Iowa, and local laws and ordinances.

10) WORK HOURS/COMMUNITY EVENTS

- a) The Contractor will be required to limit work hours on the Project from 7:00 a.m. to 7:00 p.m., Monday through Saturday, unless otherwise directed by the Engineer.
- b) The following Community Events are scheduled. Contractor is required to coordinate with the Jurisdiction as needed to allow use of public property as necessary for the event(s). If Contract continues for multiple years, event is still in force even though dates and locations may change.
 - i) May 2, June 6, August 1, October 3 – Movies in the Park at Colby Park
 - ii) May 30 – Touch a Truck at Colby Park
 - iii) August 5 – National Night Out

iv) October 3 & 4 – Fall Fest at Colby Park with parade route on 69th Street

v) TBD – Spring Cleanup

11) CONSTRUCTION FACILITIES

- a) Contractor shall provide telephone numbers where Contractor's representative can be reached during work days and on nights and weekends in event of emergency.
- b) Contractor shall provide and maintain suitable sanitary facilities for construction personnel for duration of work; remove upon completion of work.
- c) Contractor shall not store construction equipment, employee vehicles, or materials on streets open to traffic.
- d) Contractor shall provide suitable storage facilities necessary for proper storage of materials and equipment. Location for storage of equipment by Contractor is subject to approval of the Engineer.
- e) Contractor will be required to make arrangements for all services required during the construction period and pay for such services at no additional cost to the Jurisdiction.

12) PROJECT SUPERVISION

- a) The Contractor shall be represented in person at the construction site at all times that construction operations are proceeding. Representation constitutes a qualified superintendent or other designated, qualified representative capable of providing adequate supervision. The representative must be duly authorized to receive and execute instructions, notices, and written orders from the Engineer.
- b) Resolution of issues that arise during construction relating to traffic control, construction staging, etc. is the responsibility of the Contractor.
- c) Weekly progress meetings, if specified at the preconstruction conference, may be held at the project site to review project schedules, coordinate activities, resolve conflicts, and coordinate the construction work. The day and time for this meeting will be set at the preconstruction conference. The Contractor shall provide qualified representation at each meeting.
- d) Refer to Division 1 – General Provisions and Covenants, Section 1080 – Contractual Provisions, Part 1 – Prosecution and Progress of the Work, Section 1.10 Contractors Employees, Methods and Equipment for additional requirements.
- e) Contractor shall provide supervision of all sub-contractors and their personnel while on the site.

13) COORDINATION WITH OTHERS

- a) Contractor shall cooperate and coordinate construction with the Jurisdiction, utility companies, affected property owners, and other contractors working in the vicinity of this project.
- b) It is the Contractor's responsibility to schedule and coordinate work to minimize construction delays and conflicts.
- c) Contractor shall cooperate and coordinate with property owners prior to beginning work that will affect their parcel.

14) CONSTRUCTION GENERAL

- a) Procedures outlined herein are not intended to fully cover all special construction procedures but are offered as an aid to the Contractor in planning work.
- b) Contractor shall cooperate with the City of Windsor Heights, Iowa and the Engineer to minimize inconvenience to property owners, other jurisdictions and motorists and to prevent delays in construction and interruption to continuous operation of utility services and site access.
- c) The Contractor is expected to provide adequate personnel and equipment to perform work within the specified time of construction.
- d) Contractor shall install and maintain orange safety fence around all open trenches or open structures when left unattended.

- e) Contractor shall complete surface restoration and cleanup activities as construction progresses.

15) CONSTRUCTION LIMITS

- a) Contractor shall confine the construction operations within the construction limits shown on the plans.
- b) Contractor shall not store equipment, vehicles, or materials within the right-of-way of any streets open to traffic or on temporary access roads at any time.
- c) Areas disturbed outside of construction limits shall be restored at the contractor's expense to the satisfaction of the Jurisdiction.
- d) Contractor shall protect trees, fences and landscaping within the construction limits not marked for removal.
- e) All work on this project will be within City Right-of-Way, Easements or Public Property.

16) CONSTRUCTION SCHEDULE

- a) The Contractor will prepare and submit to the Engineer a project schedule that will assure the completion of the project within the time specified within the Contract.
- b) Adequate equipment and forces shall be made available by the Contractor to start work immediately upon receipt of the Notice to Proceed.
- c) Contractor shall submit a construction schedule at the preconstruction conference.
- d) Contractor shall periodically update the construction schedule as needed due to changes in progress of construction from the original schedule or as requested by the Engineer. Updates shall be completed within one week of request.
- e) The Contractor shall be required to meet the final completion date as specified in Section 00500 – Contract.
- f) Contractor shall notify the Jurisdiction and property owners at least 48 hours prior to any street closures.
 - i) Notification shall be provided by written notice placed on the front door. The following items shall be included within the notice:
 - (a) The street name, location and proposed date of street closure.
 - (b) The estimated schedule for completion of work.
 - (c) The estimated date for reopening of the street.
 - (d) Procedure for garbage collection recycling and postal service.

17) CONSTRUCTION PHASING

- a) Contractor shall refer to construction staging and traffic control plans when included in construction plans.
- b) Contractor shall include construction phasing on the required construction schedule submittal.

18) CONSTRUCTION STAKING

- a) Unless otherwise specified in the specific sections, Jurisdiction shall provide engineering surveys to establish reference points for construction as follows:
 - i) Storm Sewer: Staking will be furnished and set by the Engineer at 50.0-foot spacing (usually offset for construction) for the control of the underground construction herein described. Cuts to the proposed pipeline grade will be furnished by the Engineer. Manholes and catch basins will be staked with an offset and a witness with a cut to the lowest structure invert.
 - ii) Watermain: The staking interval for watermain shall be 25.0-feet. Cuts to the proposed pipeline grade will be furnished by the Engineer. Location staking shall be provided for valves and fittings. Hydrants will be staked with an offset and a witness with a cut to the ground elevation at the hydrant. The Engineer will provide horizontal and vertical control points on the project's datum.

- iii) Street Grading, Form Grade and Top of Curb: A control line (usually offset from the curb line) with cuts and fills to proposed grade at 50.0-foot spacing on tangents, and 25.0-foot spacing on horizontal or vertical curves, shall be furnished and set on both sides for control of the construction herein described.
 - iv) Concrete Paving: Control lines for paving forms or stringline control with cuts and fills to proposed finished grade at 25.0 or 50.0-foot stations shall be furnished and set by the Engineer for control of the concrete construction herein described. The offset and actual form or stringline locations shall be in accordance with the paver manufacturer's recommendations and the approved paving strategy as determined at the preconstruction conference.
- b) The Engineer will provide stakes indicating the right of way and/or temporary easement construction limits.
 - c) Contractor is responsible to have all areas where stakes need to be set to be clear of debris. The Contractor needs to also provide a clear line of sight for staking.
 - d) The Contractor shall submit staking requests a minimum of two (2) working days, excluding Saturdays, Sundays and legal holidays, prior to the date requested stakes are needed on the project. Staking requests submitted after 2pm shall be recorded as being received the next business day.
 - e) The stakes are an integral part of the project and the Contractor shall protect and preserve all such stakes and marks and will be charged with the expense of resetting all such stakes and marks destroyed or disturbed due to the Contractor's carelessness or negligence. Stakes that are destroyed due to vandalism, erosion or other incidents shall be re-staked by the Engineer and will not be at the Contractor's expense.
 - f) In the event of apparent or questionable errors or inconsistencies in such stakes set for control of line and/or grade, the Contractor shall promptly notify the Engineer of such error or inconsistency and shall not proceed with the work until such stake, grade or mark shall have been verified or corrected by the Engineer.
 - g) The Engineer will mark the existing boundary monuments prior to construction. The Contractor is responsible for protecting the monuments during construction. If monuments are removed, the Engineer will reset them post construction at the Contractor's expense.
 - h) All other line and grade staking shall be the responsibility of the Contractor. The Contractor shall furnish sufficient equipment and personnel for determination of plan grades, cross sections, course thicknesses, etc. The survey cost of establishing stakes requested by the Contractor for the convenience of the Contractor, beyond those cited as basic project control, will be charged to the Contractor, or withheld from the amounts due to the Contractor.

19) CONSTRUCTION SURVEY DOCUMENTATION & RESPONSIBILITIES OF ENGINEER AND CONTRACTOR

- a) The Contractor shall maintain at the construction site one complete set of drawings suitably marked to show all deviations from the original set of drawings and other information as specified. Supplementary sketches shall be included, if necessary, to clearly indicate all work as constructed.
- b) All manholes and valves shall be located with tie-off dimensions to known items on the plans or in the field to enable the Contractor or City personnel to locate these structures for adjustment.
- c) Survey work documentation shall be a combination of digital and hard copy format and is the property of the Engineer.
- d) Tie-ins with existing pavements and utilities shall be verified for correctness of alignment and elevation prior to construction staking. Any discrepancies discovered during this verification process will be brought to the attention of the Engineer for review and assistance with resolution prior to staking.
- e) When survey work is done under traffic conditions, the traffic control shall be in place prior to commencement of survey work.
- f) The Engineer will have a representative at the preconstruction conference to discuss construction staking.
- g) The Jurisdiction and Engineer will not be responsible for delays due to lack of grade or line stakes unless the Contractor has given the Engineer a 48 hour, working day, notice that such stakes will be needed and the Contractor's work is being conducted in a satisfactory manner and at the specified rate of progress.

20) MATERIALS TESTS

- a) Testing shall follow the requirements of the SUDAS Standards Specifications. Contractor specified testing shall be completed by an independent testing laboratory retained by the Jurisdiction. Required testing not specified as Contractor or Supplier responsibility will be completed by an independent testing laboratory retained by the Jurisdiction or the Engineer.
- b) The Contractor shall coordinate all material testing with the Engineer.
- c) The Contractor shall not deliver materials to the project site until laboratory tests and/or certifications have been furnished which verify compliance of materials with specifications.
- d) Contractor shall provide gradation and materials certifications for all granular materials. Certify that sources of Portland Cement and aggregate sources are Iowa DOT approved.

21) SOIL BORINGS

- a) See attached.

22) EXISTING UTILITIES

- a) Location of utility lines, mains, cables and appurtenances shown on plans are from information provided by utility companies and records of the Jurisdiction.
- b) Prior to construction, Contractor shall contact all utility companies and have all utility lines and services located. The Contractor is responsible for excavating and exposing underground utilities in order to confirm their locations ahead of the work.
- c) The Contractor is solely responsible for damage to utilities or private or public property due to utility disruption.
- d) The Contractor shall notify utility company immediately if utility infrastructure is damaged during construction.
- e) The Contractor shall support and protect all utilities that are not moved.
- f) Utility services are not generally shown on plans; protect and maintain services during construction. Notify Jurisdiction and affected property Jurisdictions 48 hours prior to any planned utility service interruptions.
- g) If private utility work occurs within/adjacent to the site during the construction period, Contractor shall coordinate work schedules with the Engineer.
- h) Existing utilities shall remain in substantially continuous operation during construction. Contractor shall select the order and methods of construction that will not interfere with the operation of the utility systems. Interrupt utility services only with approval of Jurisdiction and Engineer.
- i) No claims for additional compensation or time extensions will be allowed to the Contractor for interference or delay caused by utility companies.

23) SALVAGE OF MATERIALS / DISPOSAL

- a) The Contractor shall remove from the project site and dispose of trees, shrubs, vegetation, excess soil excavation, rubbish, concrete, granular materials and other materials encountered as shown on plans and as specified. Excess soil excavation not designated for waste locations shall be disposed of as directed by the Engineer.
- b) The City of Windsor Heights, Iowa retains first right of refusal for retaining any existing materials removed by the construction.
- c) The Contractor shall dispose of materials in accordance with applicable laws and ordinances. Disposal sites are subject to the review and approval of the Engineer.
- d) Burning of brush and other debris is not permitted. Contractor is responsible for selecting disposal location off site.
- e) The Contractor shall dispose of broken concrete, asphalt, granular material, rubble and excess or unsuitable excavated material. Contractor is responsible for selecting disposal location off site.

- f) The Contractor shall cooperate with all applicable City, State and Federal agencies concerning disposal of materials.
- g) The Contractor shall carefully remove, in a manner to prevent damage, all materials and equipment specified or indicated as salvage. The Contractor shall protect and store items specified.
- h) Any items damaged in removal, storage or handling through carelessness or improper procedures shall be replaced by the Contractor in kind with new items.

24) TRAFFIC CONTROL

- a) The Contractor shall provide sufficient surveillance of the traffic control devices to ensure compliance during the entire construction period. The Contractor shall furnish names, addresses, and phone numbers of at least two (2) local individuals capable of immediate response who will be responsible for the site security and traffic control devices to:
 - i) The Engineer;
 - ii) The Jurisdiction; and
 - iii) Local Law Enforcement Agencies.
- b) The Contractor shall schedule the work to cooperate fully with business property owners and occupants abutting the project to minimize the time of restricted access to their property during the construction period.
- c) The Contractor shall notify the City and property owners at least 48 hours prior to any street closures.
 - i) Notification shall be provided by written notice delivered to the business. The following items shall be included within the notice:
 - (1) The street name, location and proposed date of street closure;
 - (2) The estimated schedule for completion of work;
 - (3) The estimated date for reopening of the street; and
 - (4) Procedure for garbage collection/recycling and postal service.
 - ii) Contractor shall accommodate and maintain safe access to homes for property owners. Access to homes shall be considered incidental to the project.
- d) The cost of maintaining vehicular and pedestrian traffic on temporary surfaced drives and walkways, including the eventual removal of the temporary surfacing material, shall be considered incidental to traffic control.
- e) In the event that any of the above right-of-way require traffic to be detoured around the construction zone, the Contractor shall prepare the detour route with the appropriate Agency representatives. The Contractor shall provide and maintain all signing and other traffic control required. The affected Agency shall be notified by the Contractor before re-routing traffic. Dust control and road maintenance of the by-pass route shall be the Contractor's responsibility.
- f) Contractor shall furnish, erect and maintain traffic control devices as specified in the construction drawings and directed by the Engineer including signs, barrels, cones and barricades to direct traffic and separate traffic from work areas. Traffic control shall be in place prior to the closing of any streets.
- g) Contractor shall provide traffic control devices in accordance with the Iowa DOT Standard Specification, Section 2528, Traffic Control, and the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- h) Adjustments to the traffic control or the addition of flaggers will be required if, in the opinion of the Engineer, undue traffic congestion occurs.
- i) Contractor shall provide continuous access for police, fire and other emergency vehicles.
- j) Contractor shall notify the Engineer in writing at least 72 hours prior to the start of any construction operation that will necessitate land closure or internal traffic control signing.

25) TEMPORARY FENCES

- a) Contractor shall install temporary fencing around open excavations or material storage areas and as directed by Engineer to prevent access of unauthorized persons to construction areas.
- b) Contractor shall provide orange plastic mesh safety fence with a nominal height of 48". Support fence securely on driven posts in vertical position without sagging.
 - i) Refer to Iowa DOT Section 4188.03 for fence materials.
- c) Temporary fencing installed around open excavations or material storage areas is incidental to construction and will not be measured for payment.
- d) Contractor shall remove temporary fencing upon completion of construction.

26) EROSION CONTROL (NPDES Permit)

- a) If Contractor fails to install and/or perform the appropriate erosion and sediment control practices, as determined by the Engineer, the Engineer may issue a written order to the Contractor. Failure to perform this work within 72 hours of notification of non-compliance may result in the Jurisdiction or Engineer arranging for completion of the work by others. A contract deduction may be made equal to the total of all costs to perform such work so arranged, including but not limited to, labor, materials, equipment and administrative costs.
- b) It shall be the Contractor's responsibility to update the Erosion Control Plan during construction and have the plan available on site at all times.
- c) Contractor is responsible for preparing the SWPPP to match staging, phasing and construction methods as work progresses. Contractor shall comply with the erosion control requirements of said plan, the Iowa Code and local ordinances. Protect against erosion and dust pollution on this project site and any off-site deposit or borrow area used for this project.
- d) The Contractor will publish the necessary notification for the NPDES permit prior to the start of construction. The Contractor shall obtain an NPDES permit from the Iowa DNR for the area within the limits of this project based on the Pollution Prevention Plan. It shall be the Contractor's responsibility to update the plan during construction and have the plan available on site at all times.
- e) The Contractor shall protect adjoining property (including public sanitary/storm sewer systems and streets) from any damage resulting from movement of earth or other debris from the project site. Any damage shall be repaired immediately.
- f) Contractor shall prevent the accumulation of earth or debris on adjoining public or private property. Contractor shall remove any accumulation of earth or debris immediately and prevent the repetition of any instance where earth or debris moves from the project site to adjoining public or private property.
- g) Contractor shall provide erosion control measures necessary to protect against siltation and erosion from the flow of storm water. Maintain continuous operation of the storm sewer system throughout the construction period.
- h) Contractor shall use silt fence and similar Best Management Practices (BMP) at all drainage courses, swales and storm sewer system inlets/outlets to protect against siltation and erosion as shown in the construction drawings or as directed by the Engineer.
- i) Erosion protection measures, other than those specified as unit price pay items, are incidental.
- j) The Contractor will be fully liable for all damages to public and private property caused by their action or inaction in providing for handling of storm water flow during construction.
- k) As construction progresses, stabilization is required in those segments of the corridor that become available to do so. The Contractor shall not wait until all grading and paving operations are completed before commencing final surface restoration.

- l) The Contractor shall anticipate multiple mobilizations to complete finish grading operations in surface restoration areas.

27) DEWATERING

- a) Contractor shall perform all construction work in dry conditions.
- b) Unless specified in the Bid Items, all costs associated with dewatering activities shall be incidental to the project.
- c) Contractor shall submit dewatering methods to the Engineer for review. Obtain the Engineer's approval on methods prior to construction.
- d) Groundwater levels are subject to variation. No additional compensation will be permitted due to high groundwater conditions.
- e) Should cohesive soils with no wet sand seams or layers be encountered, it may be possible to control water seepage by draining groundwater to temporary construction sumps and pumping it outside the perimeter of the excavation.
- f) The Contractor shall not pump water from open excavation in sand and gravel below the natural ground water level.
- g) Contractor shall maintain water levels 2 feet or more below the bottom of excavations in saturated cohesionless (sand and/or gravel) soils to prevent upward seepage, which could reduce subgrade support.
 - i) A dewatering system (well points or shallow wells) shall be installed when working in cohesionless soils.
 - ii) Costs of installing and operating dewatering system are incidental, unless specified otherwise.
- h) Contractor shall provide means for conveying surface water encountered during construction.
 - i) Surface water shall be prevented from flowing into excavation and accumulated water shall be removed.
 - ii) Surface water and storm sewer flows shall be diverted around areas of construction.
 - iii) Sanitary sewers shall not be used for the disposal of dewatering or trench water.
- i) Contractor shall backfill pipe and structures prior to stopping dewatering operations. Contractor shall not lay pipe or construct concrete structures on excessively wet soils.
- j) Costs of conveying both surface water and groundwater are incidental.

28) READY MIX CONCRETE USED ON PAVING PROJECTS

- a) Contractor will be required to provide plant/truck batch tickets as detailed in the Iowa DOT Construction Manual, Chapter 9, Section 9.03.
- b) Contractor shall be required to provide a batch ticket for each delivered load to the Engineer or their field staff at the time of delivery on site.

29) INCIDENTAL CONTRACT ITEMS

- a) The furnishing and installing of specific items and/or the performance of work under certain circumstances shall not be individually paid in the absence of a specific bid item for the work. These costs shall be included in the Unit Price Bid for the individual items associated with the stated specific item or work effort. Such items of work include, but are not limited to:

Concrete header removal
Connections to existing storm sewer structures and pipes unless specified for separate payment
Construction and removal of temporary access roads
Construction fencing
Construction staging and phasing
Coordination and cooperation with affected property owners
Coordination and cooperation with the City of Windsor Heights

Coordination and cooperation with other contractors
Coordination and cooperation with other projects in the area
Coordination and cooperation with utility companies
Dewatering and handling storm water flow during construction
Dust control measures
Engineering fabric
Excavation, verification and protection of existing utilities
Field and wood fence removal
Field testing
Finish grading
Full depth saw-cutting of existing pavement
Grading for storm sewer outlets
Granular backfill and bedding for storm and sanitary sewer installation
Granular surfacing removal
Maintenance and watering for seeding and sodding
Maintenance of erosion control measures, including silt removal
Material testing
Monitoring weather conditions
Mowing
Overhaul
Pipe and structure bedding material
Porous backfill for subdrain
Proof rolling
Protection of existing hydrant(s) and valve(s)
Protection of existing trees and plantings not shown as removals
Protection of existing utilities and light poles
Removing and reinstalling existing signs
Reseeding
Site cleanup/restoration
Temporary safety closures
Temporary sheeting and shoring
Water valve removal
Working backfill to reduce moisture content
Working subgrade to achieve acceptable moisture content
Wrapping of storm sewer pipe joints

******END OF SECTION******

SECTION 00900 - NOTICE OF AWARD

(To be executed after bid is awarded.)

TO: Contractor _____
Address 1 _____
Address 2 _____
City, State, Zip _____

PROJECT TITLE: 68th Street Improvement Project

PROJECT DESCRIPTION: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between University Avenue and School Street.

OWNER'S NAME: City of Windsor Heights

The OWNER has considered the BID submitted by you for the above-described WORK in response to its Notice to Bidders dated _____, 20____, and Instructions to Bidders.

You are hereby notified that your BID has been accepted for items in the amount of \$_____.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER within fifteen (15) days of this, the ____ day of _____, 20____.

You must deliver to the OWNER Three (3) fully executed counterparts of the Contract, including all the Contract Documents. Each of the Contract Documents must bear your signature. You must deliver with the executed Contract acceptable Contract Security (Bonds), Certificate(s) of Insurance, and other required information. Within ten days after you comply with the above conditions, the OWNER will return to you one fully executed counterparts of the Contract.

Dated this, the ____ day of _____, 20____.

City of Windsor Heights
Windsor Heights, Iowa

BY: _____

TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged by _____,

this, the ____ day of _____, 20____.

BY: _____

TITLE: _____

SECTION 00910 - NOTICE TO PROCEED

(To be executed after Agreement, Bonds and Insurance Certificates are approved.)

TO: Contractor	Date:
Address 1	Project Title: 68th Street Improvement Project
Address 2	Project Owner: City of Windsor Heights
City, State, Zip	Project Location: Windsor Heights, Iowa

You are hereby notified to commence WORK in accordance with the Contract awarded on _____, 20____.
The Contract Time shall commence to run on Anticipated start date: _____, 20____. WORK shall proceed in accordance with the dates set forth in the Contract and all other provisions of the Contract Documents.

City of Windsor Heights

Windsor Heights, Iowa

BY: _____

TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by _____,
this, the ____ day of _____, 20____.

BY: _____

TITLE: _____

TO BE PRINTED ON CONTRACTOR'S LETTERHEAD

LETTER OF TRANSMITTAL

Contractor Name _____
Contractor Address _____
Contractor City, State, Zip _____
Contractor Phone/E-Mail _____

DATE:	BMI # 0A1133739
ATTENTION: Justin Ernst	
RE: 68 th Street Improvements	
SUBMITTAL NO.:	

WE ARE SENDING YOU ☐ Attached ☐ Under Separate Cover via _____ the Following Items:
☐ Shop Drawings ☐ Prints ☐ Specifications ☐ Copy of Letter
☐ _____

No. Copies Submitted	Specification Section	Subject of Shop Drawing or Other Submittal
Review Action: <i>(To be filled in by Engineer)</i>	☐ No Exceptions Taken ☐ Make Corrections Noted	☐ Amend - Resubmit ☐ Rejected - Resubmit ☐ Not Reviewed ☐ For Record
Comments: <i>(To be filled in by Engineer.)</i>		
☐ The CONTRACTOR hereby notifies the OWNER that this Shop Drawing is in conformance with SUDAS Specifications Section 1050, 1.05 referenced in the Contract Documents.		
☐ The CONTRACTOR hereby notifies the OWNER that this Shop Drawing is not in conformance with Section 1050, 1.05 of the SUDAS Specifications referenced in the Contract Documents and nevertheless asks approval thereof. The features not in conformance are as follows:		
1. _____ 2. _____ 3. _____ 4. _____ 5. _____ CONTRACTOR SIGNED: _____ DATE: _____		
COPY TO: _____ _____ _____ _____ <i>(To be filled in by Engineer)</i> ENGINEER SIGNED: _____ DATE: _____		

Distribution: ☐ Contractor ☐ Owner ☐ Project Engineer ☐ Field Office ☐ Other

TECHNICAL SPECIFICATIONS

JOINT PREVENTATIVE SEALANT

- 8.1 Perform Joint Preventative Sealant on transverse and longitudinal concrete pavement points when indicated on the plans or directed by the Engineer as shown on the Standard Drawing and the Plans.
- 8.2 Joint Preventative Sealant work consists of providing all labor, equipment, materials and related incidental work necessary for the application of spray- applied penetrating sealer to concrete pavement joints including the preparation and cleaning of the joints.
- 8.3 MATERIALS:
 - 8.3.1 CHEM-CRETE PAVIX CCC100 or approved equal
- 8.4 EQUIPMENT:
 - 8.4.1 Water cleaning equipment: Capable of delivering water at 2,000 psi from a nozzle in accordance with Iowa DOT Standard Specification Section 2542 for PCC surfaces and Section 2541 for HMA surfaces.
 - 8.4.2 Sand blast equipment: Capable of removing old sealant, slurry, debris, and other foreign material from vertical face of crack or joints in accordance with Iowa DOT Standard Specifications Section 2542 for PCC surfaces and Section 2541 for HMA surfaces.
 - 8.4.3 Sealant applicator: Follow manufacturer specifications, to be certified applicators.
- 8.5 INSPECTION:
 - 8.5.1 The concrete surface is clean, dry and sound.
 - 8.5.2 The concrete has cured for a minimum of 7 days.
 - 8.5.3 Perform a water absorption test to determine absorption of concrete substrate. Mist area to be treated with water. Water should readily absorb into concrete substrate, if water beads at surface the presence of a sealer is possible.
- 8.6 JOINT CLEANING:
 - 8.6.1 Clean all joints and cracks wider than 1/8 inch. Clean no more joints than can be sealed in the same day.
 - 8.6.2 Compressed air, pressure washing or any method of abrading can be used as proper preparation method to ensure clean, sound concrete surface that is free of any debris. Ensure the concrete surface is free of any sealers which may impede the absorption of the sealant into the concrete substrate matrix. Thoroughly blow out all joints and cracks of loose material.
 - 8.6.3 Surface contaminated with oil or grease shall be vigorously scrubbed with a biodegradable detergent. Thoroughly wash, clean and dry concrete substrate. Areas where oil or other contaminants penetrate deep into the concrete may require removal by mechanical methods.
 - 8.6.4 Existing joint emulsion filler to remain in place.
 - 8.5.5 Surface shall be clean, dry and sound.

8.7 APPLICATION:

- 8.7.1 Place joint sealant at manufacturer's recommended temperature to the dimensions specified in the plan details.
- 8.7.2 Application rates as specified by manufacturer.
- 8.7.3 Apply by low pressure spray equipment, rollers brooms or other methods as approved by the manufacturer. Flooding the joint is not an approved method of application.
- 8.7.4 Do not apply if precipitation is forecasted within 24 hours of coating completion. If precipitation occurs during application, discontinue immediately. Follow manufacturer's recommendations for necessary remediation action.
- 8.7.5 Allow to cure for a minimum of 2 hours before allowing vehicle traffic, or as approved by manufacturer's recommendations.
- 8.7.6 All defects caused by the operation of the contractor must be repaired in accordance with the direction of the Engineer.
- 8.7.7 Application to be a minimum of 24 inches in width or 6 inches outside of pavement shadowing as defined with the direction of the Engineer.

8.8 CLEAN UP:

- 8.8.1 Sweep dust and debris generated by the work from adjacent driveways.
- 8.8.2 After joint sealant is completed, sweep street to remove dust and debris.
- 8.8.3 Protect area behind curb from debris, remove any debris from the work from the area behind curb.

**WINDSOR HEIGHTS 68TH STREET
IMPROVEMENTS**

SPECIAL PROVISION

WATER MAINS

CITY OF DES MOINES



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Carla J. Schumacher 12/12/2024
Carla J. Schumacher, P.E. Date

Des Moines Water Works

License Number: 18191

My license renewal date is: December 31, 2024

Pages or sheets covered by this seal: Water Main Special
Provision

SPECIAL PROVISION

WATER MAINS

I. GENERAL INFORMATION

A. Submittals

The Des Moines Water Works (DMWW) will review all shop drawings for materials related to water main construction. Shop drawings shall be provided to DMWW two (2) weeks prior to any water main construction. The Contractor shall submit these shop drawings with a summary of shop drawing submittals by email to:

Carla Schumacher
cschumacher@dmww.com

B. Preparation

Notify DMWW (515-323-6227) 48 hours prior to the start of any water main related construction.

Verify proposed grades prior to construction to ensure adequate finished cover will be provided over all water mains.

The Contractor shall arrange for all survey required to install water main on line and grade as shown on the plans.

The Contractor shall arrange with DMWW for all valves and hydrants to be operated only by DMWW's personnel.

Existing 10" DMWW mainline water valve on University Avenue along the south curblin and west of 68th Street was paved over during a past project. If not already exposed, this valve shall be uncovered by Contractor prior to start of water main work so it is operational for project.

C. Connections to the Existing Water System

Expose existing buried pipe at proposed connection location. Confirm location of bells and collect field measurements. Complete this work at least two weeks prior to ordering solid sleeves or tapping sleeve and valve to allow time for manufacturing and shipping.

A tee or tapping sleeve and valve shall not be closer than 3' from another tee or tapping sleeve and valve per DMWW Rules and Regulations. Verify manufacturer's minimum distance requirements for tapping sleeve and valve before obtaining field measurements. If an alignment adjustment is required, Contractor and DMWW personnel to discuss proposed realignment so that measurements are obtained in the correct location. DMWW Tech to get a GPS shot of tee or tapping sleeve and valve location and existing bell.

Required field measurements of existing main include the outside diameter at actual connection location, depth to top of existing main, orientation, pipe material, and type and location of joints.

Connections to the existing DMWW's system shall be coordinated with the Engineer and scheduled a minimum of 48 hours in advance. Customers who will be without water shall be notified by the Contractor a minimum of 24 hours in advance. Water main shutdowns may need to be completed outside of normal working hours to minimize impact on affected

customers. No additional compensation will be paid for work outside normal working hours.

There are three connections to existing main:

1. School Street and 68th Street
 - Connect to 6" cast iron main
 - Installed 1960
 - Anticipate Top of Pipe at 6'
 - Install a tee with two solid sleeves to connect to existing main. Requires water outage.
 - Confirm location and get measurements.
2. Mott Avenue and 69th Street
 - Connect to 8" PVC main installed in 2020.
 - Remove existing 45-degree bend (installed in 2020), located east of existing valve on tee at 69th & Mott.
 - Install new main with solid sleeve to existing main after 45-degree bend removed.
3. University Avenue and 68th Street
 - Locate valve west of intersection at 68th & University that was paved over during past project. This must be operational for project.
 - Connect to existing 10" cast iron main located north of Clive 12" water main (1955 vintage).
 - Measure outside diameter of existing main.
 - Install a tee with two solid sleeves to connect to existing main. Requires water outage.

D. Abandonment of Existing Facilities

Existing water mains shall be abandoned as shown on the plans. Mains shall be capped and hydrant assemblies and valve boxes shall be removed incidental to water main construction.

Existing tees on active mains connected to abandoned water main shall be removed and replaced with a short section of new pipe and two sleeves and paid by bid items.

Abandonments must be completed prior to paving and right of way restoration.

E. Paving

1. Sidewalks
 - Follow City of Windsor Heights requirements for stop box installation in sidewalk paving.
 - Stop boxes must be operational and accessible.
 - City Inspector and DMWW Engineering Technician to verify all new stop boxes are visible and operational after paving.
2. Street
 - Paving contractor to coordinate valve box raising with prime contractor for all valves.
 - City Inspector and DMWW Engineering Technician to count and verify location of all new valve boxes. Valve boxes shall be visible and operational after paving. Missing valve boxes shall be reported to paving contractor so they can be uncovered and raised.

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. Excavating, backfilling, and compacting specifications, as applicable, for installation of water main and appurtenances.

1.02 RELATED SECTIONS

- A. Section 02 22 70 – Augured Pipe Casing.
- B. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- C. Section 02 64 00 – Valves and Hydrants.
- D. Section 02 66 00 – Water Service Transfers.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM) D2922 – Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
- B. American Society for Testing and Materials (ASTM) D3017 – Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).
- C. American Society for Testing and Materials (ASTM) D698 – Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft³).
- D. Federal Register – Occupational Safety and Health Administration (OSHA), Occupational Safety and Health Standards - Excavations.
- E. Iowa Department of Transportation (IDOT) Standard Specifications for Highway and Bridge Construction – current version, including Supplemental Specification.
- F. Iowa Statewide Urban Design and Specifications (SUDAS).

1.04 SUBMITTALS (NOT USED)

1.05 MEASUREMENT AND PAYMENT

- A. Stabilization Materials: per ton, based on quantities shown on material delivery tickets provided to Engineer.
 - 1. Include cost for all material, equipment, labor, and associated work necessary to complete work associated with stabilization materials in the unit bid price for “Foundation Rock” on the Proposal.
 - 2. Estimated quantity shown on Proposal for “Foundation Rock” is not to be used as an indication of site conditions that will be encountered during the course of the Work.
- B. Special Pipe Embedment and Encasement Material: per cubic yard, based on quantities shown on material delivery tickets provided to Engineer.
 - 1. Include cost for all material, equipment, labor, and associated work necessary to complete work associated with special pipe embedment and encasement material in the unit bid price for “Utility Embedment Material” on the Proposal.
 - 2. Estimated quantity shown on Proposal for “Utility Embedment Material” is not to be used as an indication of site conditions that will be encountered during the course of the Work.

PART 2 PRODUCTS

2.01 EXCAVATED MATERIALS

- A. Strip, grub, and stockpile topsoil for finished grading.
- B. Backfill material to be:
 - 1. Approved for use by Engineer.
 - 2. Selected material taken from the excavation or select borrow material, if sufficient quantities of compliant excavated material are not available.
 - 3. Inorganic clays, clayey sands, or inorganic and clayey silts, compatible with and having an obtainable density no less than adjacent soils.
 - 4. Free of lumps or clods over 3 inches in the largest dimension.
 - 5. Free of foreign debris including rocks, organic materials, and man-made debris.
 - 6. Material that is not frozen.

2.02 BEDDING MATERIAL

- A. Steel Pipe: Bed pipe using sand free of frozen material, foreign debris, including rocks, organic materials, and man-made debris.
- B. Ductile iron pipe, prestressed concrete cylinder pipe, polyvinyl chloride pipe, and corrugated steel pipe: Bed pipe using material taken from the excavation with the following characteristics:
 - 1. Inorganic clay, clayey sand, or inorganic and clayey silt.
 - 2. Free of lumps or clods over 2 inches in the largest dimension.
 - 3. Free of foreign debris including rocks, organic materials, and man-made debris.
 - 4. With a soil moisture range of optimum moisture to 4 percentage points above optimum moisture content.
 - 5. Material that is not frozen.

2.03 STABILIZATION MATERIAL

- A. When required by field conditions, use stabilization material of crushed limestone, dolomite, or quartzite generally meeting the following characteristics:
 - 1. 2-inch nominal maximum size.
 - 2. 95 percent retained on a 3/4-inch screen.
 - 3. Generally free from deleterious substances as determined by Engineer.

2.04 BORROW MATERIALS

- A. If sufficient quantity of suitable material is not available from excavations, obtain material from approved off-site sources. Off-site sources must hold a National Pollutant Discharge Elimination System (NPDES) permit from the IDNR for storm water discharge associated with construction activity.
- B. Conform borrow materials, including topsoil and backfill material, to specifications for excavated materials in Part 2.01.
- C. Topsoil borrow material to be:
 - 1. Natural loam and humus with characteristics consistent with the existing topsoil on site.
 - 2. Finely graded and free of clumps larger than 2 inches in the largest dimension.
 - 3. Free of man-made materials and debris.
 - 4. Free of rock or organic matter, including wood and roots, greater than 3/4-inch, in the largest dimension.
 - 5. Comprised of less than 0.5 percent clay.

2.05 SPECIAL PIPE EMBEDMENT AND ENCASEMENT MATERIAL

- A. When directed by Engineer, install controlled low-strength material to provide support to existing utilities.
1. Controlled Low-Strength Material (CLSM):
 - a. Approximate quantities per cubic yard:
 - (1) Cement: 50 pounds.
 - (2) Fly ash: 250 pounds.
 - (3) Fine aggregate: 2,910 pounds.
 - (4) Water: 60 gallons.
 - b. A compressive strength of at least 50 psi compressive strength at 28 calendar days.
 - c. Comply with material requirements of Section 2506.02 of IDOT Standard Specifications, current version.

2.06 MANUFACTURED SAND MATERIAL

- A. When directed by Engineer, install manufactured sand.
1. Stone sand complying with the following gradation:

Sieve	Percent Passing
3/8-inch	100
No. 4	90-100
No. 8	60-75
No. 30	15-30
No. 200	0-4

PART 3 EXECUTION

3.01 GENERAL

- A. General Description
1. Complete trenching, backfilling, and compacting for water main in accordance with the SUDAS manual. These specifications are intended to highlight or modify basic requirements; see SUDAS manual for more detailed information.
- B. Quality Assurance
1. Give Engineer the opportunity to review excavated or borrowed soils prior to placement as backfill.
 2. Owner will commission and compensate a qualified soils engineer to develop Proctor curves indicating moisture-density relationships for all soil types used as backfill.
 3. Use Proctor curves and soil analysis information in determining proper compaction of soils placed.
- C. General Safety
1. Blasting not permitted.
 2. Safety and protection:
 - a. Provide shoring, sheeting, and bracing, as required, to protect Work, adjacent property, private or public utilities, and workers.
 - b. Strictly observe laws and ordinances regulating health and safety measures.
 - c. Excavations that Owner's personnel are required to enter shall comply with OSHA standards.
- D. Soil Testing
1. Field tests for density and moisture content to be performed by the soils engineer, defined in Part 3.01.B above, to ensure that specified density is being obtained. Perform testing using ASTM D2922 nuclear methods or another method approved by Engineer.
 2. Take density tests at finished grade, at 3 feet below finished grade, and as directed by Engineer under special conditions. Test locations to be selected by Engineer immediately prior to performing tests. Excavate, as directed by Engineer, for tests at intermediate depths. As a

minimum, take density tests at approximately 200-foot intervals along the trench. The following locations require additional testing:

- a. Over jacking pits where casing was installed.
- b. Immediately adjacent to all structures.
3. When test results indicate compaction is not as specified:
 - a. Additional tests will be required in both directions from the failed test until satisfactory results are obtained.
 - b. Remove, replace, and recompact all material between the satisfactory tests in lifts to meet specifications. Compaction corrections are made at no expense to Owner.
 - c. Provide density tests to recompacted areas at the same frequency as the original tests. Testing of recompacted areas performed at the Contractor's expense.
4. Notify Engineer if petroleum-based materials are detected in soils. Appropriate action will be taken by Owner.
5. Tests that are not conducted in the presence of the Engineer, or are conducted at locations not selected by the Engineer, will be rejected.

E. Protection of Utility Lines

1. Conduct trenching operations to avoid damaging underground utilities.
2. Protect all underground utilities. Damage resulting from trenching or backfilling to be repaired by Contractor or utility company at Contractor's expense.
3. Underground utilities discovered by Contractor are to be protected.

3.02 DISPOSAL OF EXCAVATED MATERIAL

- A. Remove excess material excavated for water main trench from site and in compliance with environmental regulations.
- B. Backfill consisting of suitable material, which comes from an off-site source, must conform to Part 2.01.

3.03 TRENCH EXCAVATION

- A. Strip and stockpile topsoil for finished grading. A minimum of 12 inches of topsoil must be segregated from other materials in agricultural areas.
- B. Excavate trenches so as to:
 1. Follow lines and grades as indicated on plans.
 2. Provide uniform bearing on undisturbed soil and continuous support along the entire length of pipe.
 3. Prevent over-excavation in locations where suitable subgrade conditions exist.
 4. Provide vertical trench walls to an elevation no less than 12 inches above the pipe.
- C. Correct unstable trench bottoms, as determined by Engineer, as follows:
 1. Over-excavate the trench to stable soil or to a maximum of 2 feet below the bottom of the pipe.
 2. If stable soil is reached, bring trench back to grade using suitable backfill material or bedding material compacted to 90 percent Standard Proctor Density.
 3. If stable soil is not reached after 2 feet of over-excavation, place one (1) foot of the specified trench stabilization material in the trench bottom and compact. Bring trench back to grade using suitable backfill material or bedding material compacted to 90 percent Standard Proctor Density.
 4. Place pipe only after trench bottom has been fully stabilized.
- D. Remove stones encountered during excavation. When large rocks are encountered, remove to an elevation 6 inches below the bottom of the proposed improvement. Fill voids created through removal of stones with approved backfill material and thoroughly compact to 90 percent Standard Proctor Density.
- E. Excavate trench bottoms deeper at location of bell joints to permit body of pipe to rest uniformly supported upon trench bottom. Use bell holes no longer than is necessary for practical installation of pipe.

- F. The length of trench to be opened at one time is as follows:
 - 1. In extended runs, open trench length is not to exceed 100 feet.
 - 2. In street crossings, trench shall not be open in more than one lane at a time, unless specified differently in traffic control plan.
 - 3. Backfill driveways and entrances immediately after placement of pipe.
- G. Place excavated material:
 - 1. As approved by Engineer when these specifications do not apply.
 - 2. Compactly along sides of excavation.
 - 3. To provide continuous access to fire hydrants and utility valves.
 - 4. To provide as little inconvenience as possible to public travel.
 - 5. To minimize damage to adjacent lawns and planted areas.

3.04 PIPE BEDDING

- A. Bed pipe with 4-inch-thick layer of specified bedding material for pipes 20-inch and larger.
- B. Place bedding alongside of pipe to an elevation above springline (no lower than half the height of the pipe).
- C. Compact bedding to a minimum of 90 percent Standard Proctor Density.
- D. Obtain required compaction within a soil moisture range of optimum moisture to 4 percentage points above optimum moisture content.
- E. Do not damage pipe coating or wrapping system during bedding placement and compaction.

3.05 BACKFILLING

- A. Perform backfilling of trenches only after pipe installation, jointing, and bedding are complete, inspected, and approved.
- B. Use backfill material complying with Part 2 above.
- C. Mechanically tamp backfill with impact or vibrating compaction equipment.
- D. Place backfill in layers and compact to required density.
- E. Backfill to be:
 - 1. Compacted to 90 percent Standard Proctor Density to a level one (1) foot above the pipe.
 - 2. For the remainder of the trench:
 - a. Compact public rights-of-way to 95 percent Standard Proctor Density.
 - b. Compact easement areas to 90 percent Standard Proctor Density.
 - 3. Within a soil moisture range of optimum moisture to 4 percentage points above optimum moisture content.
- F. Protect pipe coating or pipe wrapping system from damage during backfill operations.
- G. Hydraulic compaction or water jetting of pipe trenches is not permitted.
- H. Adjust moisture content of material that exceeds optimum moisture range, but is otherwise acceptable, by spreading and aerating or otherwise drying as necessary until moisture content is within required moisture range and required compaction can be obtained.
- I. Adjust moisture content of material that is below optimum moisture, but is otherwise acceptable, by wetting as necessary until moisture content is within required moisture range and required compaction can be obtained.

3.06 GRADING

- A. Finish-grade surfaces with a well-compacted, free-draining, uniform surface without obstructive protrusions or depressions.
- B. Place topsoil at a uniform depth equal to surrounding topsoil, but not less than 4 inches.
- C. Place topsoil to a minimum depth of 6 inches when ample native topsoil is available.
- D. Place topsoil only under lawn and planted areas.

3.07 CONTROL OF WATER

- A. Install pipe in the dry.
- B. Dewater as necessary to prevent water from entering pipe or rising around pipe.
- C. Do not allow water pumped or diverted from excavation site to be:
 - 1. Pooled anywhere on site.
 - 2. Removed in such a manner as to disperse silt.
 - 3. Placed on surfaces heavily traveled by pedestrian traffic.
- D. Do not use installed pipe as a conduit for trench dewatering.
- E. Control surface water as follows:
 - 1. Divert surface water to prevent entry into pipe trenches.
 - 2. Remove surface water accumulated in pipe trenches and other excavations prior to continuation of excavation work.
 - 3. Remove surface water saturated soil from excavation.
- F. Control groundwater as follows:
 - 1. Where groundwater is encountered, dewater trenches and other excavations, as necessary, to permit proper execution of the Project.
 - 2. When large quantities of groundwater are encountered, stabilize trenches with the specified stabilization material, and bed pipe as specified.

3.08 DISPOSAL OF UNSUITABLE OR EXCESS MATERIAL

- A. Dispose of surplus material and material not suitable for backfill off-site at a location provided by Contractor.
 - 1. Off-site disposal locations must hold a National Pollutant Discharge Elimination System (NPDES) permit from the IDNR for storm water discharge associated with construction activity.
 - 2. Contractor to provide transportation of such material.

3.09 CLEANUP AND RESTORATION

- A. Clear the site in and around the excavation of mud and construction debris to a condition equal to, or better than, that existing prior to trenching work.
- B. Remove construction remnant materials from site.
- C. Repair damage to adjacent property suffered during installation work to a condition equal to, or better than, that condition existing prior to trenching Work.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. This Section describes Iowa Department of Natural Resources (IDNR) requirements for protection of water supply systems and reflects IDNR updates to 567 IAC 43.3(2)"a"(3) that became effective March 16, 2022, and the Standard Specifications on file with IDNR dated October 10, 2014, that include a variance for electronic leak detection.

1.02 RELATED SECTIONS

- A. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- B. Section 02 64 00 – Valves and Hydrants.
- C. Section 02 67 40 – Pressure Testing Water Mains.
- D. Section 02 67 50 – Disinfection of Water Distribution Systems.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM) C443 – Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets.
- B. 567 IAC 43.3 (2)"a"(3) new subparagraphs (3) and (4), effective March 16, 2022.
- C. Standard Specifications on file with IDNR dated October 10, 2014, with variance for electronic leak detection.

1.04 SUBMITTALS (NOT USED)

1.05 MEASUREMENT AND PAYMENT (NOT USED)

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 GENERAL INSTALLATION REQUIREMENTS

- A. Lay water mains to avoid high points where air can accumulate. Grade piping so that proposed hydrants will be at the highest points.
- B. Do not locate hydrants within 10 feet of sanitary sewers or storm drains.
- C. Plug hydrant drain ports in areas where groundwater rises above water main and pump hydrant barrel dry following construction.
- D. Pressure test and disinfect new water mains prior to placing them in service.

3.02 SEPARATION DISTANCE

- A. **Horizontal separation of water mains from gravity sanitary and combined sewers:**
 - 1. When horizontal separation is at least 10 feet from edge to edge, there are no additional requirements.
 - 2. When horizontal separation is at least 3 feet from edge to edge and less than 10 feet, with water main located at least 18 inches or more above top of sewer, sewer must be placed in a separate trench than the water main or on a bench of undisturbed earth in the same trench as the water main.

3. When horizontal separation is at least 3 feet from edge to edge and less than 10 feet, with water main located less than 18 inches above top of sewer:
 - a. Option 1: Construct water main within watertight casing pipe with evenly spaced annular gap provided by watertight end seals, or
 - b. Option 2: Construct sewer of water main materials.
 4. When it is impossible to obtain the required 3-foot horizontal clearance edge to edge, the sewer must be replaced with water main quality materials.
 5. In no case shall horizontal separation be less than 2 feet.
- B. Horizontal separation of water mains from sanitary sewer force mains:**
1. When horizontal separation distance is at least 10 feet from edge to edge, there are no additional requirements.
 2. When horizontal separation is at least 4 feet from edge to edge and less than 10 feet, sewer must be constructed of water main materials.
 3. In no case shall horizontal separation be less than 4 feet.
- C. Vertical separation of water mains from gravity sanitary and combined sewer crossings:**
1. When vertical separation distance is at least 18 inches or greater from edge to edge and water main is located above sewer, there are no additional requirements.
 2. When vertical separation distance is at least 6 inches from edge to edge and less than 18 inches, and water main is located above sewer:
 - a. Option 1: Construct water main within watertight casing pipe with evenly spaced annular gap and watertight end seals, or
 - b. Option 2: construct sewer of water main materials.
 3. When vertical separation distance is 18 inches or greater from edge to edge, and water main is located below sewer:
 - a. Option 1: Construct water main within watertight casing pipe with evenly spaced annular gap and watertight end seals, or
 - b. Option 2: construct sewer of water main materials.
 4. In no case shall vertical separation be less than 6 inches edge to edge when water main is above sewer.
 5. In no case shall vertical separation be less than 18 inches edge to edge when water main is below sewer.
- D. Horizontal separation of water mains from gravity storm sewers:**
1. When horizontal separation is at least 10 feet from edge to edge, there are no additional requirements.
 2. When horizontal separation is at least 3 feet from edge to edge and less than 10 feet:
 - a. Option 1: Construct water main of ductile iron pipe with gaskets impermeable to hydrocarbons, or
 - b. Option 2: Construct water main within watertight casing pipe with evenly spaced annular gap using chocks and watertight end seals, or
 - c. Option 3: Construct sewer of water main materials, or
 - d. Option 4: Construct reinforced concrete pipe storm sewers with gaskets manufactured in accordance with ASTM C443.
 3. In no case shall horizontal separation be less than 3 feet.
- E. Vertical separation of water mains from gravity storm sewer crossings:**
1. When vertical separation distance is at least 18 inches from edge to edge, there are no additional requirements.
 2. When vertical separation distance is at least 6 inches from edge to edge and less than 18 inches, and water main is located above sewer:
 - a. Option 1: Construct water main of ductile iron pipe with gaskets impermeable to hydrocarbons, or
 - b. Option 2: Construct water main within watertight casing pipe with evenly spaced annular gap using chocks and watertight end seals, or
 - c. Option 3: Construct sewer of water main materials, or
 - d. Option 4: Construct reinforced concrete pipe storm sewers shall be constructed with gaskets manufactured in accordance with ASTM C443.

3. In no case shall vertical separation be less than 6 inches when water main is above sewer.
4. In no case shall vertical separation be less than 18 inches when water main is below sewer.

F. Separation of water mains from sewer manholes:

1. No water pipe shall pass through, or come in contact with, any part of a sewer manhole.
2. Provide a horizontal separation distance of at least 10 feet between water mains and sewer manholes whenever possible.
3. In no case shall the horizontal separation of water main from sanitary and combined sewer manholes be less than 3 feet.

- G. Advise Engineer should physical conditions exist such that exceptions to Part 3.02 of this Section are necessary.

3.03 WATER CROSSINGS

A. Above-water Crossings:

1. Adequately support and anchor pipe used for above-water crossings.
2. Protect pipe from damage and freezing.
3. Ensure pipe is accessible for repair or replacement.

B. Underwater Crossings:

1. Use restrained joint pipe for water mains entering or crossing streams that are 15 feet in width or larger.
 - a. Place top of water main a minimum of 5 feet below natural bottom of streambed.
 - b. Securely anchor water main to prevent movement of pipe and provide easily accessible shutoff valves located outside the floodway at each end of the water crossing.
 - c. Backfill trench with crushed rock or gravel.
 - d. Seed, sod, or otherwise protect streambank from erosion upon completion of the Project.
2. For smaller streams, the same requirements shall apply except that shutoff valves do not need to be located immediately adjacent to the water crossing.
3. DMWW will electronically pinpoint leaks in lieu of inserting a small meter to determine leakage and obtain water samples on each side of shutoff valve.

3.04 DEPTH OF COVER AND WIDTH OF TRENCH

- A. Provide 5 feet minimum depth of cover from top of pipe to ground surface.
- B. Where possible, provide an additional 6 inches of cover under pavement.
- C. Insulate water mains where conditions prevent adequate earth cover.
- D. Provide a trench width adequate to lay and joint pipe properly but not more than 12 inches on either side of the pipe.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. This Section includes water mains, fittings, as shown on the plans, complete with accessories.

1.02 RELATED SECTIONS

- A. Section 02 22 00 – Excavating, Backfilling, and Compacting for Water Mains.
- B. Section 02 60 00 – Protection of Water Supply.
- C. Section 02 64 00 – Valves and Hydrants.
- D. Section 02 67 40 – Pressure Testing Water Mains.
- E. Section 02 67 50 – Disinfection of Water Distribution Systems.

1.03 REFERENCES

- A. American National Standards Institute (ANSI) B16.1 – Cast Iron Pipe Flanges and Flanged Fittings.
- B. American Society for Testing and Materials (ASTM) A320 – Alloy-Steel and Stainless-Steel Bolting for Low-Temperature Service.
- C. American Society for Testing and Materials (ASTM) A536 – Standard Specification for Ductile Iron Castings.
- D. American Water Works Association (AWWA) C104 – Cement-Mortar Lining for Ductile-Iron Pipe and Fittings.
- E. American Water Works Association (AWWA) C105 – Polyethylene Encasement for Ductile-Iron Pipe Systems.
- F. American Water Works Association (AWWA) C110 – Ductile-Iron and Gray-Iron Fittings.
- G. American Water Works Association (AWWA) C111 – Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.
- H. American Water Works Association (AWWA) C115 – Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges.
- I. American Water Works Association (AWWA) C150 – Thickness Design of Ductile Iron Pipe.
- J. American Water Works Association (AWWA) C151 – Ductile Iron Pipe, Centrifugally Cast.
- K. American Water Works Association (AWWA) C153 – Ductile-Iron Compact Fittings.
- L. American Water Works Association (AWWA) C600 – Installation of Ductile-Iron Water Mains and Their Appurtenances.
- M. American Water Works Association (AWWA) C605 – Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water.
- N. American Water Works Association (AWWA) C900 – Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 In. Through 60 In.

1.04 SUBMITTALS

- A. Submit the following items for materials provided by the Contractor:
 - 1. Manufacturer's certification that materials furnished are in compliance with applicable requirements of referenced standards and this Section.
 - 2. Drawings and manufacturer's data showing details of pipe and fittings to comply with this Section.
 - 3. Class of pipe and fittings.
 - 4. Restrained joint details for Engineer's approval.
 - 5. List of at least ten projects similar to this Project. Include project name, scope, duration of Project, and references with phone numbers.
- B. Provide dimensional drawings, fabrication details, functional description, and properly identified catalog data on pipe and equipment to prove complete compliance with Drawings and Specifications.

1.05 MEASUREMENT AND PAYMENT

- A. Measure water main in linear feet, along centerline of pipe.
- B. Include costs for material, equipment, and labor for Work included in this Section.

PART 2 PRODUCTS

2.01 DUCTILE IRON PIPE (12-INCH AND SMALLER)

- A. Special Thickness Class 52 per AWWA C150.
- B. Manufacture pipe in accordance with AWWA C151.
- C. Provide asphaltic outside coating per AWWA C151, 1 mil in thickness.
- D. Cement Mortar Lining:
 - 1. Provide pipe with standard thickness cement mortar lining per AWWA C104.
 - 2. Seal-coat cement mortar lining in accordance with AWWA C104.

2.02 POLYVINYL CHLORIDE PIPE

- A. Use Class 235 (DR 18) pipe with ductile iron pipe equivalent outside diameters.
- B. Manufacture pipe in accordance with AWWA C900.
- C. Use restrained-joint PVC pipe for pipe installed utilizing horizontal directional drilling.
- D. Use blue pipe.

2.03 FITTINGS FOR DUCTILE IRON AND POLYVINYL CHLORIDE PIPE

- A. Use compact fittings in accordance with AWWA C153, or full size in accordance with AWWA C110.
- B. Use ductile iron material for construction in accordance with AWWA C110.
- C. Joints
 - 1. Mechanical in accordance with AWWA C111 with restraint.
 - a. T-bolts and hex-head nuts for mechanical joints in accordance with AWWA C111.
 - (1) Material: low carbon alloy weathering Cor-Ten steel.
 - (2) Coating: Cor-Blue fluorocarbon resin.
 - (3) Color: Blue.
 - (4) Approved Manufacturers:
 - (a) Birmingham Fastener Manufacturing Fluorocarbon Coated T-Head Bolt.
 - (b) Or approved equal.

2. Flanged in accordance with AWWA C115, as indicated on plans, with ANSI Class 125 full-faced flange.
 - a. Gaskets: of thickness compatible with machining tolerance of flange faces. Minimum thickness: 1/8-inch.
 - b. Nuts and bolts: stainless steel in accordance with ASTM A320, Type 304.

D. Pressure Rating:

Size (inches)	Pressure Rating (psi)
3 – 24	350
30 – 48	250
54 – 64	150

E. Provide asphaltic outside coating per AWWA C110, 1 mil in thickness.

F. Cement Mortar Lining:

1. Provide standard thickness cement mortar lining per AWWA C104.
2. Seal-coat cement mortar lining in accordance with AWWA C104.

2.04 JOINTS FOR DUCTILE IRON AND POLYVINYL CHLORIDE PIPE

- A. Use push-on joints using an integral bell with an elastomeric or nitrile gasket in accordance with AWWA C111, mechanical in accordance with AWWA C111, or restrained as needed for thrust restraint.
- B. Use ductile iron follower glands for mechanical joints.
- C. Solvent cement joints are strictly prohibited.
- D. T-bolts and hex-head nuts for mechanical joints in accordance with AWWA C111.
 1. Material: low carbon alloy weathering Cor-Ten steel.
 2. Coating: Cor-Blue fluorocarbon resin.
 3. Color: Blue.
 4. Approved Manufacturers:
 - a. Birmingham Fastener Manufacturing Fluorocarbon Coated T-Head Bolt.
 - b. Or approved equal.
- E. Provide flanged joints for connections to flanged valves, hydrant valves, and other flanged fittings where shown on plans. Conform to AWWA C115 with ANSI Class 125 full-faced flange.
 1. Gaskets: SBR Rubber of thickness compatible with machining tolerances of flange faces. Minimum thickness: 1/8 inch.
 2. Nuts and bolts: Conform to ASTM A320, Type 304.
- F. Joint bonds: No. 4 AWG-HMWPE stranded copper cable per Section 13 21 00.

2.05 RESTRAINED JOINTS

- A. Mechanical Joint
 1. Incorporate restraint for all mechanical joints into the design of the follower gland.
 2. Use retainer gland designed to impart multiple wedging actions against the pipe, increasing its resistance as pressure increases.
 3. Restrained joints to consist of a mechanical joint with retainer gland or manufacturer's proprietary-restrained joint.
 4. Conform dimensions to the requirements of AWWA C111 and AWWA C153.
 5. Pressure rating:
 - a. Minimum of 235 psi for PVC pipe.
 - b. Minimum of 350 psi for ductile iron pipe for sizes 16-inch and smaller.
 - c. Minimum of 250 psi for ductile iron pipe for sizes 18-inch and larger.

6. Color:
 - a. Red for PVC pipe.
 - b. Black for ductile iron pipe.
 7. Materials for construction:
 - a. Body, wedge segments, and break-off bolt assemblies: Grade 65-45-12 ductile iron as specified by ASTM A536.
 - b. Coating to be electrostatically applied and heat cured.
 - (1) Approved manufacturers:
 - (a) MEGA-BOND by EBAA Iron, Inc.
 - (b) CORRSafe by Sigma.
 - (c) Starbond by Star Products.
 - (d) Resicoat R2-ES by Tyler Union.
 - (e) EZ Shield by SIP Industries.
 - (f) Or approved equal.
 8. Minimum safety factor of 2.
 9. Use ductile iron retainer wedge segments heat treated to a minimum Brinell hardness number of 370.
 10. Incorporate twist-off nuts, the same size as hex-head nuts for T-bolts, into the design to ensure proper actuating torque is applied during installation.
 11. Approved manufacturers for PVC pipe:
 - a. Megalug by EBAA Iron Inc. Series 2000PV.
 - b. One-Lok by Sigma Series SLCE.
 - c. Stargrip by Star Products Series 4000.
 - d. TUFgrip by Tyler Union Series 2000.
 - e. EZ Grip by SIP Industries Series EZP.
 - f. Or approved equal.
 12. Approved manufacturers for ductile iron pipe:
 - a. Megalug by EBAA Iron Inc. Series 1000.
 - b. One-Lok by Sigma Series SLDE.
 - c. Stargrip by Star Products Series 3000.
 - d. TUFgrip by Tyler Union Series 1000.
 - e. EZ Grip by SIP Industries Series EZD.
 - f. Or approved equal.
- B. PVC Pipe Joint
1. Provide restraint for in-line PVC pipe through the use of groove and spline or grip ring located in the bell that provides full-circumferential restrained joint.
 2. Restraint joints to have a minimum pressure rating of 150 psi.
 3. Manufacturers:
 - a. Certa-Lok by North American Specialty Products.
 - b. Diamond Lok-21 by Diamond Plastics.
 - c. Eagle Loc 900 by JM Eagle.
 - d. Or approved equal.
- C. Ductile Iron Pipe Joint
1. Restraint for in-line ductile iron pipe shall consist of the manufacturer's proprietary-restrained joint.
 2. Restraint joints to have a minimum pressure rating of 250 psi.

2.06 POLYETHYLENE PIPE ENCASEMENT MATERIAL (DUCTILE IRON PIPE AND FITTINGS)

- A. Polyethylene encasement manufactured in accordance with AWWA C105.
- B. Linear low-density polyethylene film.
- C. Minimum thickness of be 8 mils.
- D. Color: Blue.

- E. Physical Properties:
1. Tensile strength 3600 psi, minimum.
 2. Elongation 800 percent, minimum.
 3. Dielectric strength 800 V/mil, minimum.
 4. Impact resistance 600 g, minimum.
 5. Propagation tear resistance 2550 gf, minimum.

F. Use flat-width tubing of the following sizes:

<u>Pipe Size</u>	<u>Tubing Width</u>
3 inches	14 inches
4 inches	14 inches
6 inches	16 inches
8 inches	20 inches
12 inches	27 inches
16 inches	34 inches
20 inches	41 inches
24 inches	54 inches
30 inches	67 inches
36 inches	81 inches

G. Provide markings containing the following information spaced every 2 feet apart:

1. Name of manufacturer.
2. Year of manufacture.
3. ANSI/AWWA C105-A21.5.
4. 8 mil linear low-density polyethylene (LLDPE).
5. Applicable range of nominal pipe diameter.
6. Warning – Corrosion Protection – Repair Any Damage.

H. Sheet material can be used to wrap irregular-shaped valves and fittings.

I. Use 2-inch-wide, 10-mil-thick pressure-sensitive polyethylene tape to close seams and hold overlaps.

2.07 TRACER SYSTEM

A. Tracer Wire:

1. Open Cut:
 - a. No. 12 AWG Solid Single Copper Conductor
 - (1) Insulation: 45 mil, high-density, high molecular weight polyethylene (HDPE) and rated for direct burial at 30 volts.
 - (2) Tensile Strength: 150 pounds, minimum.
 - (3) Color: Blue.
2. Directional Drilling/Boring:
 - a. No. 12 AWG extra-high-strength copper clad steel conductor (EHS-CCS).
 - (1) Insulation: 45 mil, high-density, high molecular weight polyethylene (HDPE) and rated for direct burial at 30 volts.
 - (2) EHS-CCS Conductor: 21 percent conductivity for locating purposes with a minimum 1150 pounds break load.
 - (3) Origin of copper clad steel manufacture is required and steel core must be manufactured in the United States.
 - (4) Color: Blue.
 - b. Install tracer wire on pipe installations with a combination of open cut and directional drilling to meet directional drilling requirements.

B. Ground Rod: 3/8-inch minimum diameter, 8-foot minimum length steel rod uniformly coated with metallically bonded electrolytic copper.

C. Ground Rod Clamp: High-strength, corrosion-resistant copper alloy.

- D. Wire Splice Connector:
1. Tracer wire splices shall only be used to connect the anode ground rod to the tracer wire, at tees/crosses and at places where tracer wire has been damaged during construction. All splices must be brought to the attention of inspector and a GPS shot recorded for DMWW records.
 2. Tracer wire splices will not be allowed for:
 - a. Splices between the end of a roll of wire and the beginning of a new roll. If wire roll does not contain enough wire to reach next required splice point or a Triview connection terminal, contractor shall start a new wire roll.
 - b. Between anode ground rods and Triview connection terminal.
 - c. At hydrant tees.
 3. Splices used for tracer wire repair must be approved by Engineer.
 - a. Splice Kit: 3M Scotchcase 3832 Buried Service Wire Splice Kit with Burndy KS15 8-14 AWG Splice Bolt.
 - b. Splice Kit: DryConn Direct Bury Lug Aqua (SKU 90220)
 - c. Or approved equal.
- E. Tracer Wire Connection:
1. Rhino TriView TracerPed, or approved equal.
 - a. Three internal terminals with two shunts.
 - b. 5-foot white plastic triangular post.
 - c. Removable top cap with lock.
 - d. Three 2-7/8-inch by 14-inch custom vinyl decals No. SD-5594K.
 - e. Tri-grip anchor.

PART 3 EXECUTION

3.01 HANDLING, STORAGE, AND SHIPPING

- A. Handle pipe carefully.
- B. Use blocking and hold-downs during shipment to prevent movement or shifting.
- C. Pipe with damage to cement mortar lining will be rejected with field-patching not permitted.
- D. Do not telescope small pipe inside larger pipe for shipment and storage.
- E. Handle pipe materials by use of nylon straps, wide canvas or padded slings, wide-padded forks and skids, or other approved means designed to prevent damage to the polyethylene encasement. Unpadded chains, sharp edges or buckets, wire ropes, narrow forks, hooks, and metal bars are unacceptable.
- F. Dropping or rolling of pipe material is not permitted.
- G. Do not store PVC pipe in direct sunlight for prolonged periods of time.
- H. Protect pipe to prevent dirt entering the pipe.

3.02 GENERAL PIPE INSTALLATION

- A. Protect pipe joints from injury while handling and storing.
- B. Use no deformed, defective, gouged, or otherwise impaired pipe.
- C. Excavate and prepare trench as specified in Section 02 22 00.
- D. Install ductile iron pipe in accordance with AWWA C600.
- E. Install PVC pipe in accordance with AWWA C605.

- F. Prepare trench bottom with sufficient exactness before pipe is installed so that only minor movement of the pipe will be necessary after installation.
- G. Clean pipe interior prior to placement in trench.
- H. Install pipe to line and grade shown on plans with an allowable tolerance of 6 inches, plus or minus.
- I. Maintain uniform bearing along full length of pipe barrel at all times. Blocking the pipe up will not be acceptable. Excavate trench bottoms deeper at location of bell joints to permit body of pipe to rest uniformly supported upon trench bottom. Use bell holes no longer than is necessary for practical installation of the pipe.
- J. Clean joint surfaces of dirt and foreign matter using a wire brush before jointing pipe.
- K. Lubricate gasket and pipe bell. Provide food grade lubricant meeting manufacturer's recommendations. Use lubricant approved for use with potable water.
- L. Make joints in strict accordance with manufacturer's recommendations.
- M. Deflect joints within manufacturer's specifications for maximum deflections.
- N. Tighten bolts on mechanical joints evenly around pipe by alternating from one side of the pipe to the other.
- O. Cut pipe in a neat manner, without damage to pipe or cement mortar lining, if any. Leave a smooth end at right angles to axis of pipe. Bevel cut pipe ends for push-on-type joints in accordance with manufacturer's recommendations.
- P. Do not install pipe in water, nor allow water to rise in trench above bottom of pipe.
- Q. Place watertight bulkheads on exposed ends of pipe at all times when pipe installation is not actually in progress.
- R. Backfill and compact around pipe as outlined in Section 02 22 00.

3.03 INSTALLATION OF POLYETHYLENE PIPE ENCASEMENT MATERIAL

- A. Use polyethylene encasement material on buried ductile iron pipe, fittings, rods, and appurtenances in accordance with AWWA C105, Method A.
- B. Use polyethylene tubing to encase pipe.
- C. Cut tubing 2 feet longer than pipe section. Overlap tubing one (1) foot at each end of pipe.
- D. Gather and lap tubing to provide a snug fit.
- E. Secure lap at quarter points with polyethylene tape. Secure each end of tube with a complete wrap of polyethylene tape.
- F. Use polyethylene encasement to prevent contact between the pipe and bedding material. The polyethylene encasement is not intended to be a completely airtight and watertight enclosure.
- G. Repair damaged polyethylene encasement material using polyethylene tape or replace damaged section(s).
- H. Pick and move polyethylene-encased pipe with nylon slings; wire rope is not permitted.

3.04 THRUST BLOCKS

- A. Provide concrete thrust blocks or collars at changes in alignment, tees, and dead ends.
- B. Carry thrust blocks or collars to undisturbed soil that will provide adequate bearing.
- C. The bearing area of thrust blocks or collars, in square feet, to be as shown on plans. Minimum thickness for thrust block to be 1.5 times outside pipe diameter or 18 inches, whichever is greater.
- D. Hold thrust blocks or collars back 3 inches from all bolts, nuts, glands, or other jointing materials. Ensure joints could be remade without disturbing thrust block or collar.
- E. Provide bond breaker between thrust block or collar and pipe. Polyethylene encasement material will be considered an acceptable bond breaker.
- F. Provide thrust blocks at all connections to existing water mains.

3.05 TRACER SYSTEM INSTALLATION

- A. Install tracer wire with buried piping.
- B. Duct tape tracer wire to pipe every 5 feet in the 5 or 7 o'clock position to prevent damage to wire during backfill and future construction exposure.
- C. Tracer wire installation shall be performed in such a manner that allows proper access for connection of line tracing equipment, and proper locating of wire without loss, deterioration, or migration of the signal for distances in excess of 1,000 linear feet.
- D. Install ground rods as follows:
 - 1. At the starting point and ending point of each direct run of pipe, regardless of the length of the pipe segment.
 - 2. At select hydrants, approximately every 1,000 feet.
 - 3. Adjacent to tee or cross fittings. Tracer wire would typically not be spliced together at these fittings.
 - 4. At connection fittings to existing water main installed without tracer wire. Where minor alterations to existing water main installed without tracer wire are being performed, no tracer system will be installed.
- E. Terminate tracer wire in tracer wire connection next to each fire hydrant or other locations noted in paragraph D.
- F. Wire splice connectors are not allowed unless approved by Engineer. Provide long enough roll of tracer wire to not need the use of wire splice connectors.
- G. Allow Engineer to inspect underground splices prior to backfilling.
- H. Tracer wire installation is considered incidental to water main installation.

3.06 TESTING AND CHLORINATION

- A. Perform hydrostatic and leakage tests in accordance with Section 02 67 40.
- B. Disinfect all water mains in accordance with Section 02 67 50.
- C. A tracer wire test will be conducted by Owner prior to acceptance. The tracer wire system including terminations at all TriViews, anode ground rods, and splice kits are to be completely installed prior to tracer wire test. Any deficiency found in tracer wire system to be corrected by Contractor at Contractor's expense.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. This Section includes valves and hydrants as shown on the plans, complete with accessories.

1.02 RELATED SECTIONS

- A. Section 02 22 00 – Excavating, Backfilling, and Compacting for Water Mains.
- B. Section 02 60 00 – Protection of Water Supply.
- C. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- D. Section 02 67 40 – Pressure Testing
- E. Section 02 67 50 – Disinfection

1.03 REFERENCES

- A. American National Standards Institute (ANSI) B16.1 – Cast Iron Pipe Flanges and Flanged Fittings.
- B. American Society for Testing and Materials (ASTM) A320 – Alloy-Steel and Stainless-Steel Bolting for Low-Temperature Service.
- C. American Society for Testing and Materials (ASTM) A536 – Standard Specification for Ductile Iron Castings.
- D. American Society for Testing and Materials (ASTM) B584 – Copper Alloy Sand Castings for General Applications.
- E. American Water Works Association (AWWA) C105 – Polyethylene Encasement for Ductile-Iron Pipe Systems.
- F. American Water Works Association (AWWA) C111 – Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.
- G. American Water Works Association (AWWA) C115 – Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges.
- H. American Water Works Association (AWWA) C153 – Ductile Iron Compact Fittings.
- I. American Water Works Association (AWWA) C502 – Dry-Barrel Fire Hydrants.
- J. American Water Works Association (AWWA) C509 – Resilient-Seated Gate Valves for Water Supply Service.
- K. American Water Works Association (AWWA) C515 – Reduced-Wall, Resilient-Seated Gate Valves for Water Supply Service.
- L. American Water Works Association (AWWA) C550 – Protective Interior Coatings for Valves and Hydrants.
- M. American Water Works Association (AWWA) C600 – Installation of Ductile-Iron Water Mains and Their Appurtenances.

1.04 SUBMITTALS

- A. Submit manufacturer's certification that materials furnished are in compliance with applicable requirements of referenced standards and this Section.
- B. Provide dimensional drawings, fabrication details, functional description, and properly identified catalog data on all items to prove complete compliance with Drawings and Specifications.

1.05 MEASUREMENT AND PAYMENT

- A. All material, equipment, and labor necessary to comply with this Section incidental to unit price bids on the Proposal.

PART 2 PRODUCTS

2.01 GATE VALVES

- A. Provide resilient-seated gate valves manufactured in accordance with AWWA C509 or AWWA C515.
 - 1. Type of service: buried service handling potable water with a pH range of 9.5 to 9.8.
 - 2. Minimum pressure rating: 250 psi.
 - 3. Provide valves with non-rising stem.
 - 4. Provide 2-inch by 2-inch wrench operating nut that opens valves when turned in clockwise direction (open to the right), unless noted otherwise on Drawings.
 - 5. Valve gearing for 20-inch to 48-inch valves:

- a. Provide valve with gear box.
 - b. Provide vertical valve unless otherwise specified on Drawings.
 - c. Use the following gear ratios for the corresponding sizes:

Valve Size (inches)	Gear Ratio
20	3 to 1
24	3 to 1
30	6 to 1
36	6 to 1
42	8 to 1
48	8 to 1

- d. Totally enclosed type, oil-filled, and designed for buried and submerged service.
 - e. Materials of construction:
 - (1) Gear housing: ductile iron.
 - (2) Gears: carbon steel.
 - (3) Pinion shaft: 304 stainless steel.
 - (4) Design input shaft with a ball bearing and sealed with O-rings.
 - (5) Exposed hex nuts and bolts: 304 stainless steel.

- B. Materials of Construction:
 - 1. Body and bonnet: ductile iron.
 - 2. Gate: cast or ductile iron fully encapsulated with synthetic rubber.
 - 3. Stem and stem nut: bronze.
 - 4. O-rings: Buna-N.
 - 5. Exposed hex bolts and nuts: 304 stainless steel.
 - 6. Joints:
 - a. Mechanical in accordance with AWWA C111.
 - (1) Gaskets: Buna-N or nitrile.
 - (2) Nuts and bolts:
 - (a) All T-bolts and hex-head nuts for mechanical joints in accordance with AWWA C111.
 - (b) Material: low carbon alloy weathering Cor-Ten steel.
 - (c) Coating: Cor-Blue fluorocarbon resin.
 - (d) Color: Blue.
 - (e) Approved Manufacturers:
 - 1) Birmingham Fastener Manufacturing Fluorocarbon Coated T-Head Bolt.
 - 2) Or approved equal.

- b. Flanged in accordance with AWWA C115, as indicated on the plans, with ANSI Class 125 full-faced flange.
 - (1) Gaskets: Buna-N or nitrile, of thickness compatible with machining tolerances of flange faces. Minimum thickness: 1/8-inch.
 - (2) Nuts and bolts: 304 stainless steel.
- C. Design valve to:
 - 1. Allow replacement of upper O-ring while valve is under pressure in the full-open position.
 - 2. Not permit metal-to-metal contact between gate and body.
 - 3. Accommodate full-size tapping machine shell cutter.
- D. Horizontal valves are required to have a cleaning system on both sides of the gate consisting of materials that are non-corrosive.
- E. Interior and exterior valve coating minimum of 10-mil-thick fusion-bonded epoxy per AWWA C550.
- F. Operating valve through 500 cycles at rated pressure must not result in disbondment or degradation of the coating. Certification will be required for manufacturers not listed below.
- G. Indicate manufacturer, casting year, size, working pressure, and body material (ductile iron) in valve casting.
- H. Manufacturers' Models for 4-inch to 16-inch valves:
 - 1. Clow Model 2638.
 - 2. American Flow Control Series 2500.
 - 3. Mueller 2300 Series.
 - 4. M & H Style 4067.
 - 5. EJ Flowmaster.
 - 6. Approved equal.
- I. Manufacturers' Models for 20-inch to 48-inch valves:
 - 1. Clow Model 2638.
 - 2. American Flow Control Series 2500.
 - 3. Mueller 2300 Series.
 - 4. EJ Flowmaster.
 - 5. Approved equal.

2.02 SWING CHECK VALVE

- A. Provide swing check valves manufactured in accordance with AWWA C508.
 - 1. Type of service: buried service handling potable water with a pH range of 9.5 to 9.8.
 - 2. Minimum pressure rating: 250 psi.
- B. Materials of Construction:
 - 1. Body and cover: ductile iron per ASTM A536.
 - 2. Disc: molded Buna-N (NBR) per ASTM D2000-BG.
 - 3. Disc accelerator: Type 302 stainless steel.
 - 4. Exposed hex bolts and nuts: stainless steel.
 - 5. Joints:
 - a. Flanged in accordance with AWWA C115, as indicated on the plans, with ANSI Class 125 full-faced flange.
 - (1) Gaskets: Buna-N or nitrile, of thickness compatible with machining tolerances of flange faces. Minimum thickness: 1/8-inch.
 - (2) Nuts and bolts: Conform to ASTM A320, Type 304.
- C. Provide full-size top access port to allow removal of the disc without removing the valve from the line.
- D. Provide one-piece disc with alloy steel and nylon reinforcement.

- E. Provide one-piece disc accelerator, enclosed within the valve, field adjustable, and replaceable without removing the valve from the line.
- F. Interior and exterior valve coating shall be ANSI/NSF approved fusion-bonded epoxy.
- G. Manufacturers:
 - 1. Val-Matic Series #7200 Surgebuster Swing Check Valve.
 - 2. Approved equal.

2.03 HYDRANTS (DES MOINES/WINDSOR HEIGHTS)

- A. Hydrants manufactured in accordance with AWWA C502.
- B. Use dry-barrel, breakaway type hydrants designed to break near ground line on impact. The breaking ring consists of a full circumference one piece or split contact retaining ring.
- C. Provide flanged connections for head and base to hydrant barrel.
- D. Provide 6-inch mechanical joint shoe with harnessing lugs.
- E. Provide 4-1/2-inch-minimum-diameter main valve with bronze seat ring. Thread seat ring directly to bronze bushing or drain ring that is securely locked to hydrant shoe.
- F. Provide pentagon-shaped operating nut with weather cap. Dimension from point to flat at top of operating nut: 1-3/16-inch.
- G. Provide two 2-1/2-inch hose nozzles and one 4-inch pumper nozzle with caps having nut with dimensions identical to operating nut:
 - 1. Hose nozzle threads
 - a. Outside diameter of male thread: 3-1/16 inches
 - b. Diameter at root of male thread: 2-7/8 inches
 - c. Threads per inch: 7-1/2
 - d. Length of nozzle threads: 1 inch
 - e. Cut off at top of threads: 1/4 inch
 - 2. Pumper nozzle threads
 - a. Outside diameter of male thread: 4-31/32 inches
 - b. Diameter at root of male thread: 4-19/32 inches
 - c. Threads per inch: 4
 - d. Length of nozzle threads: 1-1/2 inches
 - e. Cut off at top of threads: 1/4 inch
- H. Provide markings cast-in-bonnet that indicate direction of opening. Hydrants to open clockwise (to the right).
- I. Provide anti-thrust washers for ease of operation.
- J. Provide grease chamber or oil reservoir, sealed by means of O-rings, for lubrication of operation threads. Provide lubricant suitable for contact with potable water.
- K. Painting:
 - 1. Prepare surfaces to be coated according to SSPC-SP6, commercial blast cleaning.
 - 2. Coat hydrant in accordance with AWWA C502 and coating manufacturer's instructions.
 - 3. Tnemec epoxy paint system (Alternative 1)
 - a. Coat interior surfaces, other than machined surfaces, with asphaltic coating.
 - b. Coat exterior surfaces below grade with two coats of asphaltic coating.
 - c. Prime exterior surfaces above grade using an aromatic urethane, zinc-rich system with 2.5 to 3.5 mils dry film thickness. Tnemec Series 90-97.
 - d. Paint exterior surfaces above grade using an aliphatic acrylic polyurethane system at 2.5 to 3.5 mils dry film thickness. Tnemec Series 73.

- e. Apply a 2 to 3 mils dry film thickness of high gloss clear coat to exterior surfaces above grade after paint has been allowed to dry thoroughly. Tnemec Series 1079.
 - f. Color:
 - (1) Asphaltic coating: Black.
 - (2) Primer: Reddish-gray.
 - (3) Body: Bright Yellow (03SF).
 - (4) Bonnet: Safety Green (09SF).
 - (5) Caps: Bright Yellow (03SF).
 - 4. Tnemec epoxy paint system (Alternative 2)
 - a. Coat interior surfaces, other than machined surfaces, with asphaltic coating.
 - b. Coat exterior surfaces below grade with two coats of asphaltic coating.
 - c. Prime exterior surfaces above grade using a polyamide epoxy system, Tnemec Series 20, FC20 or 66, and paint using an aliphatic acrylic polyurethane system, Tnemec Series 75, or approved equal. Provide total dry mil thickness of 5 to 7 mils.
 - d. Apply a 2 to 4 mils dry thickness of clear coat to exterior surfaces above grade after paint has been allowed to dry thoroughly.
 - e. Color:
 - (1) Asphaltic coating: Black.
 - (2) Primer: White (AA83).
 - (3) Paint: Bright Yellow (SC02).
 - (4) Bonnet: Safety Green (SC07).
 - (5) Caps: Bright Yellow (SC02).
 - 5. Approved equal.
 - a. System must be approved by DMWW prior to bid opening.
- L. Materials of Construction:
- 1. Breakaway stem coupling: steel, cast iron, or stainless steel.
 - 2. Bonnet barrel, shoe, gate, and nozzle caps: cast iron.
 - 3. Threaded internal components exposed to water, valve seats, and nozzles: bronze.
 - 4. Cotter pins, drive pins, bolts, and screws exposed to water: stainless steel or brass.
 - 5. Exterior bolts, nuts, set screws, and other miscellaneous fasteners: stainless steel or bronze. Metal components in contact with water to comply with requirements of ASTM B584 copper alloy UNS No. C89520 or UNS No. C89833. Residual lead levels of the metal not to exceed 0.25 percent by weight as cast or extruded.
- M. Manufacturers:
- 1. Clow Medallion.
 - 2. Mueller Centurion.
 - 3. Approved equal.

2.04 JOINTS FOR VALVES AND HYDRANTS

- A. Use mechanical joints in accordance with AWWA C111, or restrained as indicated on plans.
- B. Use ductile iron follower glands for mechanical joints.
- C. Bolts:
 - 1. All T-bolts and hex-head nuts for mechanical joints in accordance with AWWA C111.
 - a. Material: low carbon alloy weathering Cor-Ten steel.
 - b. Coating: Cor-Blue fluorocarbon resin.
 - c. Color: Blue.
 - d. Approved Manufacturers:
 - (1) Birmingham Fastener Manufacturing Fluorocarbon Coated T-Head Bolt.
 - (2) Or approved equal.
 - 2. All bolts and hex nuts for flanged joints of 304 stainless steel.
- D. Use flange joints having 1/8-inch rubber ring gaskets for nominal diameters of 24 inches or less and 1/8-inch rubber ring gaskets for nominal diameter greater than 24 inches.
- E. Use elastomeric or nitrile gaskets in accordance with AWWA C111.

2.05 RETAINER GLANDS

- A. Incorporate restraint for all mechanical joints into design of follower gland.
- B. Use a retainer gland design imparting multiple wedging actions against the pipe, increasing its resistance as pressure increases.
- C. Restrained joints to consist of a mechanical joint with retainer gland or manufacturer's proprietary-restrained joint.
- D. Dimensions conforming to the requirements of AWWA C111 and AWWA C153.
- E. Pressure rating:
 - 1. Minimum of 235 psi for PVC pipe.
 - 2. Minimum of 350 psi for ductile iron pipe for sizes 16-inch and smaller.
 - 3. Minimum of 250 psi for ductile iron pipe for sizes 18-inch and larger.
- F. Color:
 - 1. Red for PVC pipe.
 - 2. Black for ductile iron pipe.
- G. Materials for construction:
 - 1. Body, wedge segments, and break-off bolt assemblies: Grade 65-45-12 ductile iron as specified by ASTM A536.
 - 2. Coating to be electrostatically applied and heat cured.
 - a. Approved manufacturers:
 - (1) MEGA-BOND by EBAA Iron, Inc.
 - (2) CORRSafe by Sigma.
 - (3) Starbond by Star Products.
 - (4) Resicoat R2-ES by Tyler Union.
 - (5) EZ Shield by SIP Industries.
 - (6) Or approved equal.
- H. Minimum factor of safety of 2.
- I. Use ductile iron retainer wedge segments heat-treated to a minimum Brinell hardness number of 370.
- J. Incorporate twist-off nuts, the same size as hex-head nuts for T-bolts, into the design to ensure proper actuating torque is applied during installation.
- K. Approved manufacturers for PVC pipe:
 - 1. Megalug by EBAA Iron Inc. Series 2000PV.
 - 2. One-Lok by Sigma Series SLCE.
 - 3. Stargrip by Star Products Series 4000.
 - 4. TUFgrip by Tyler Union Series 2000.
 - 5. EZ Grip by SIP Industries Series EZP.
 - 6. Or approved equal.
- L. Approved manufacturers for ductile iron pipe:
 - 1. Megalug by EBAA Iron Inc. Series 1000.
 - 2. One-Lok by Sigma Series SLDE.
 - 3. Stargrip by Star Products Series 3000.
 - 4. TUFgrip by Tyler Union Series 1000.
 - 5. EZ Grip by SIP Industries Series EZD.
 - 6. Or approved equal.

2.06 VALVE BOXES

- A. Provide cast iron screw-type adjustable heavy-duty valve box with cast iron stay-put cover marked "WATER" for each buried valve.
- B. Minimum inside diameter of valve boxes of 5-1/8 inches.
- C. Weight of valve box assembled, top and bottom sections, without valve box lid as follows:

Extension Height (inches)	Weight (pounds)
27-37	71
33-43	78
39-50	85
36-52	93
39-60	100

- D. Tyler No. 6850 29-U Domestic, or approved equal.
- E. For an approved equal, provide proof that all parts of proposed valve box can be interchangeable with Tyler No. 6850 29-U Domestic.
- F. Install valve boxes upon valve with use of a rubber Valve Box Adapter II as manufactured by Adaptor Inc., or approved equal.

2.07 POLYETHYLENE ENCASEMENT MATERIAL

- A. Polyethylene encasement manufactured in accordance with AWWA C105.
- B. Linear low-density polyethylene film.
- C. Minimum thickness of 8 mils.
- D. Color: Blue.
- E. Physical Properties:
 - 1. Tensile strength 3600 psi, minimum.
 - 2. Elongation 800 percent, minimum.
 - 3. Dielectric strength 800 V/mil, minimum.
 - 4. Impact resistance 600 g, minimum.
 - 5. Propagation tear resistance 2550 gf, minimum.
- F. Sheet material can be used to wrap irregular-shaped valves and fittings.
- G. Use 2-inch-wide, 10-mil-thick pressure-sensitive polyethylene tape to close seams and hold overlaps.

PART 3 EXECUTION

3.01 HANDLING, STORAGE, AND SHIPPING

- A. Handle valves and hydrants carefully.
- B. Use blocking and hold-downs during shipment to prevent movement or shifting.

3.02 GENERAL INSTALLATION REQUIREMENTS

- A. Protect valves and hydrants from injury while handling and storing.
- B. Use no defective, damaged, or otherwise impaired materials.

- C. Prepare excavation as outlined in Section 02 22 00.
- D. Install valves and hydrants in accordance with AWWA C600.
- E. Clean interior of valve or hydrant prior to placement in trench.
- F. Install valves and hydrants to line and grade as shown on plans.
- G. Install valves and hydrants plumb.
- H. Clean joint surfaces of dirt and foreign matter using a wire brush before jointing.
- I. Lubricate gasket and bell. Provide food grade lubricant meeting manufacturer's recommendations. Use lubricant approved for use with potable water.
- J. Make joints in strict accordance with manufacturer's recommendations.
- K. Evenly tighten bolts on mechanical joints or flanged joints around pipe by alternating from one side of pipe to the other. Follow manufacturer's installation specifications for electrical isolation flanges to prevent damage during bolt torquing.
- L. Backfill and compact around hydrants and valves as outlined in Section 02 22 00.

3.03 VALVE INSTALLATION

- A. Do not support valves off of piping.
- B. Ensure valve box is centered over operating nut.
- C. Install rubber Valve Box Adapter II as manufactured by Adapter Inc., or approved equal, inside of valve box centered on valve.
- D. If located within pavement, the top of valve boxes shall be installed 1/4 inch below the pavement surface.

3.04 HYDRANT INSTALLATION

- A. Anchor auxiliary valve to hydrant tee.
- B. Install hydrant with break flange more than 1 inch and less than 7 inches above finished grade.
- C. The use of hydrant extensions will not be allowed to set hydrant to appropriate height, unless approved by Engineer. Hydrant extensions, if approved, must be from same manufacture as the fire hydrant.
- D. Use restrained joints in hydrant branch.
- E. Set hydrant on a solid concrete cinder block not smaller than 8-inch by 16-inch by 4-inch.
- F. Provide poured concrete thrust blocks behind hydrant and hydrant tee.
- G. Ensure hydrant drain is free-flowing and unobstructed in areas where normal groundwater level is below drain opening.
- H. Provide not less than one (1) cubic yard of open-graded granular fill around base of hydrant for drainage.
- I. Lubricate and exercise each of the three (3) hydrant caps to prevent seizing. Provide food grade grease lubricant meeting manufacturer's recommendations. Use lubricant approved for use with potable water.

3.05 INSTALLATION OF POLYETHYLENE PIPE ENCASEMENT MATERIAL

- A. Use polyethylene encasement material on buried valves and buried portion of hydrants in accordance with AWWA C105.
- B. Wrap valves using polyethylene sheet material to prevent contact with bedding. Secure sheet to adjacent pipe and just below valve operation nut using polyethylene tape.
- C. Wrap buried portions of hydrants using 24-inch flat-width polyethylene tubing. Secure tubing to hydrant barrel just below grade using polyethylene tape.
- D. The polyethylene encasement preventing contact with bedding material is not intended to be an airtight and watertight enclosure.
- E. Repair damaged polyethylene encasement material using polyethylene tape, or replace the damaged section.

3.06 THRUST BLOCKS

- A. Provide concrete thrust blocks at hydrants and hydrant tees.
- B. Carry thrust blocks to undisturbed soil that will provide adequate bearing.
- C. The bearing area of thrust blocks, in square feet, as shown on the plans. Minimum thickness for thrust block of 1.5 times outside pipe diameter or 18 inches, whichever is greater.
- D. Hold thrust blocks back 3 inches from bolts, nuts, glands, or other jointing materials. Ensure joints could be remade without disturbing thrust block.
- E. Provide bond breaker between thrust block and pipe or hydrant. Polyethylene encasement material will be considered an acceptable bond breaker.

3.07 REMOVAL OF ABANDONED FIRE HYDRANTS AND VALVE BOXES

- A. Surface restoration items including pavement removal and replacement, seeding, or sodding, needed to remove abandoned fire hydrants or valve boxes to be paid in accordance with appropriate bid item in Contract.
- B. All other items related to removal of abandoned fire hydrants and valve boxes including repairs to traffic loops and lawn irrigations systems incidental to Contract.
- C. Remove abandoned fire hydrants by disconnecting pipe from fire hydrant at the shoe.
- D. Return abandoned fire hydrants to Des Moines Water Works at 408 Fleur Drive, unless Engineer approves their disposal.
- E. Backfill and restore all excavations for fire hydrant removals according to Sections 02 22 00 and 02 50 00 of these Specifications.
- F. Remove abandoned valve box and entire top section, backfill the lower section and excavation, and restore according to Sections 02 22 00 and 02 50 00 of these Specifications.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. Transferring existing water services from existing water mains to new water mains to the extent shown in the Plans.

1.02 RELATED SECTIONS

- A. Section 02 22 00 – Excavating, Backfilling, and Compacting for Water Mains.
- B. Section 02 60 00 – Protection of Water Supply.
- C. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- D. Section 02 64 00 – Valves and Hydrants.
- E. Section 02 67 40 – Pressure Testing Water Mains.
- F. Section 02 67 50 – Disinfection of Water Distribution Systems.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM) B62 – Composition Bronze or Ounce Metal Castings.
- B. American Society for Testing and Materials (ASTM) B88 – Seamless Copper Water Tube.
- C. American Society for Testing and Materials (ASTM) B584 – Copper Alloy Sand Castings for General Applications.
- D. American Water Works Association (AWWA) C800 – Underground Service Line Valves and Fittings.
- E. Federal Register – Occupational Safety and Health Administration (OSHA), Occupational Safety and Health Standards – Excavations.

1.04 SUBMITTALS

- A. Submit the following items for materials provided by the Contractor:
 - 1. Manufacturer's certification that materials furnished are in compliance with the applicable requirements of the referenced standards and this Section.
 - 2. Drawings and manufacturer's data showing details of pipe and fittings to comply with this Section.
- B. Provide dimensional drawings, fabrication details, functional description, and properly identified catalog data on all equipment to prove complete compliance with Drawings and Specifications.

1.05 MEASUREMENT AND PAYMENT

- A. Payment for installation of 1-inch to 2-inch water service transfer is made as a unit, including the connection to new water main with insulated corporation and corporation 90, installation of new curb stop and stop box, installation of pipe, connection to existing water service, excavation, backfill, and compaction.
- B. Payment for installation of 4-inch and larger water service transfer is made as a unit, including the tee, valve, DI pipe, valve box, valve box adapter, needed fittings, poly wrap, bonded joints, and thrust restraint.
- C. All work related to water service transfer is considered incidental to the installation of the water service transfer.

PART 2 PRODUCTS

2.01 CORPORATION VALVES

- A. Type: one-quarter-turn ball valve in accordance with AWWA C800.
- B. Inlet Threads: standard AWWA corporation valve inlet threads.
- C. Outlet Threads: flared copper connection.
- D. Provide corporations to be used on iron pipe with a dielectric insulator that prevents the passage of electric current.
- E. Metal components in contact with water to comply with the requirements of ASTM B584 copper alloy UNS No. C89520 or UNS No. C89833. Residual lead levels of the metal not to exceed 0.25 percent by weight as cast or extruded.
- F. Metal components not in contact with water to comply with the requirements of ASTM B62 copper alloy UNS No. C38600 or the material as described in Part 2.01.E.
- G. Meet Des Moines Water Works Rules and Regulations for Water Services.
- H. Approved Manufacturers for Corporation Valves on Non-iron Pipe:
 - 1. A.Y. McDonald Mfg. Co., Model No. 74701B.
 - 2. The Ford Meter Box Company, Inc., Catalog No. FB600-NL.
 - 3. Mueller Co., Model No. 300 Catalog No. B-25000N.
- I. Approved Manufacturers for Corporation Valves on Iron Pipe:
 - 1. A.Y. McDonald Mfg. Co., Model No. 74701BDB.
 - 2. The Ford Meter Box Company, Inc., Catalog No. SI-FB600-NL.
 - 3. Mueller Co., Model No. 300 Catalog No. N-35000N.

2.02 COPPER PIPE

- A. Copper Tubing: ASTM B88, Type K, annealed.
- B. Joints: flared.
- C. Meet Des Moines Water Works Rules and Regulations for Water Services.

2.03 FITTINGS (2-INCH AND SMALLER)

- A. Joints: flared.
- B. Metal components in contact with water to comply with the requirements of ASTM B584 copper alloy UNS No. C89520 or UNS No. C89833. Residual lead levels of the metal not to exceed 0.25 percent by weight as cast or extruded.
- C. Metal components not in contact with water to comply with the requirements of ASTM B62 copper alloy UNS No. C38600 or the material as described in Part 2.03.B.
- D. Meet Des Moines Water Works Rules and Regulations for Water Services.

2.04 CURB STOP

- A. Type: "T" handle, quarter-turn, ball pattern valves conforming to AWWA C800, with flared copper inlet and outlet connections.
- B. Provide pre-drilled valve head for attaching stationary shutoff rod.

- C. Provide valve head checks that limit rotation to 90 degrees. Valve head to be parallel to valve body when open; valve head to be perpendicular to valve body when closed (Operate right to shutoff).
- D. Metal components in contact with water to comply with the requirements of ASTM B584 copper alloy UNS No. C89520 or UNS No. C89833. Residual lead levels of the metal not to exceed 0.25 percent by weight as cast or extruded.
- E. Metal components not in contact with water to comply with the requirements of ASTM B62 copper alloy UNS No. C38600 or the material as described in Part 2.04.D.
- F. Meet Des Moines Water Works Rules and Regulations for Water Services.
- G. Approved Manufacturers:
 - 1. A.Y. McDonald Mfg. Co., Model No. 76100.
 - 2. A.Y. McDonald Mfg. Co., Model No. 76104.
 - 3. The Ford Meter Box Company, Inc., Catalog No. B22-444M-NL or B22-777M-NL.
 - 4. The Ford Meter Box Company, Inc., Catalog No. B22-444-NL or B22-777-NL.
 - 5. Mueller Co., Model No. 300 Catalog No. B-25204N.
 - 6. Mueller Co., Model No. 300 Catalog No. B-25154N.

2.05 CURB BOX

- A. Body:
 - 1. Upper section: 1-inch-inside-diameter steel pipe.
 - 2. Base section: arch base pattern, with telescoping 1-inch upper section, stainless steel rod and pin, and lid.
 - 3. Adjust to accommodate:
 - a. 5-foot-minimum service depth.
 - b. 7-foot-maximum service depth.
 - 4. Provide a positive means of preventing rotation of upper section during removal of lid.
- B. Lid:
 - 1. Material: cast iron.
 - 2. Style: two-hole Erie pattern, to fit spanner wrench.
 - 3. Provide 1-inch NPT female-threaded brass bushing to screw onto curb box with 1-inch-diameter upper section. Bushing shall be secure and rotate integrally with lid.
 - 4. Acceptable lids:
 - a. A.Y. McDonald Mfg. Co., Model No. 5601L.
 - b. The Ford Meter Box Company, Inc., Type HS.
 - c. Mueller Co., Model Part No. 89982.
 - d. Or approved equal.
- C. Stationary Shutoff Rod
 - 1. Material: 304 stainless steel, single-piece construction.
 - 2. Diameter: approximately 1/2-inch.
 - 3. Rod:
 - a. Self-centered in curb box.
 - b. Extending above curb box joint. Distance between top of rod and top of box to be:
 - (1) No less than 12 inches.
 - (2) No greater than 24 inches.
 - 4. Provide a blade at the upper end of rod in a plane parallel to the curb stop valve head with thickness appropriate for operation using a stationary rod key.
 - 5. Provide a fork at the lower end of rod to fit over and operate the valve head of a standard curb stop. Provide holes in fork to align with hole in curb stop valve head.
 - 6. Connect rod to curb stop using stainless steel cotter pin, or approved equal, inserted through holes in rod fork and curb stop valve head.

- D. Meet Des Moines Water Works Rules and Regulations for Water Services.
- E. Approved Manufacturers:
 - 1. A.Y. McDonald Mfg. Co., Model No. 5601.
 - 2. The Ford Meter Box Company, Inc., Catalog No. EA1- #1 -40- #2 R, with #1 being extended length of stop box housing and #2 being rod length.
 - 3. Or approved equal.

2.06 LARGE WATER SERVICE TRANSFERS (4-INCH AND LARGER)

- A. Use products listed in Sections 02 61 00 and 02 64 00.
- B. Use ductile iron for all pipe.

PART 3 EXECUTION

3.01 GENERAL

- A. Qualifications:
 - 1. Plumbing work covered by this Section to be completed by a plumber who is bonded with Des Moines Water Works and licensed in accordance with local plumbing codes.
 - 2. Contractors will not be permitted to make their own 1-inch direct taps on mains installed under this Contract. Contact Des Moines Water Works 24 hours in advance to schedule taps.
- B. Plumbing Permits and Inspections:
 - 1. Obtain permits necessary for service transfers.
 - 2. Arrange for and schedule required plumbing inspections in accordance with local plumbing codes.
- C. Scheduling:
 - 1. Install services only after the new water main passes pressure test per Section 02 67 40 and disinfection per Section 02 67 50.
 - 2. The Contractor is to notify residential customers 24 hours in advance when their water service will be interrupted for service transfer.
 - 3. The Contractor is to notify commercial and industrial customers a minimum of 24 hours in advance when water service will be interrupted for service transfer and to coordinate the interruption completely with the customer. Commercial and industrial service transfers may need to be completed outside normal working hours to minimize impact on the affected customers. No additional compensation will be paid for work outside normal working hours.

3.02 EXAMINATION

- A. Confirm location, elevation, and orientation of existing utilities and modify elevation of new water services to omit conflicts with utilities while maintaining 5-foot-minimum cover.
- B. Verify location and size of existing service line prior to excavation and installation of new tap.

3.03 SIZE OF SERVICE LINES AND TAPS

- A. Transfer water service lines according to Plans and Specifications as follows:
 - 1. Complete 1/2-inch, 3/4-inch, and 1-inch service transfers with 1-inch taps and 1-inch pipe needed to make connection.
 - 2. Complete 1-1/2-inch and 2-inch service transfers with 2-inch taps and pipe same size as existing.
- B. Complete 4-inch and larger service transfers with valve, pipe, and fittings needed to make connection.

3.04 PREPARATION

- A. Excavate in accordance with Section 02 22 00.
- B. Cut pipe ends square, ream tube ends to full pipe diameter, and remove burrs.
- C. Remove scale and dirt on inside and outside before assembly.

3.05 INSTALLATION

- A. Schedule taps to be made by Owner a minimum of 24 hours in advance. Such taps will be made only between the hours of 8 a.m. and 3:30 p.m. and only on the Owner's normal work days.
- B. Shore excavations for taps to be made by Owner according to OSHA Trench Shoring Standards.
- C. Provide 12-inch clear area behind and below main and 48-inch clear area in front of main to be tapped.
- D. Install service lines in accordance with local plumbing codes.
- E. Use trenchless construction methods when installing water service lines underneath roads, driveways, shoulders, or other traffic-carrying surfaces.
- F. Corporation:
 - 1. Install corporations no closer than 18 inches from a pipe joint, another corporation, or side of excavation.
 - 2. One-inch corporations will be installed at a 45-degree angle above horizontal; 2-inch corporations will be installed horizontal.
 - 3. Corporation to face the property to be served.
 - 4. Corporation taps will not be allowed on dry mains.
- G. Pipe:
 - 1. Maintain minimum separation between water piping and sewer piping in accordance with IDNR requirements as described in Section 02 60 00.
 - 2. Maintain 5-foot-minimum cover below final grade. Do not exceed 7-foot cover without Owner's authorization.
- H. Curb Stop:
 - 1. Set curb stop on solid bearing.
 - 2. Center and plumb curb box over curb stop.
 - 3. Install stationary shutoff rod. Attach shutoff rod to curb stop as specified above.
 - 4. Set box cover flush with finished grade and plumb.
 - 5. Location:
 - a. In public right-of-way.
 - b. 1 to 6 feet from property line in the City of Des Moines.
 - c. 1 foot from property line in Polk County.
 - d. Not within driveway or sidewalk.
- I. Repair leaks that develop in new service lines or water mains due to water service installation operations.
- J. Coordinate necessary inspections to satisfaction of jurisdictional authority for water service lines.
- K. Install large service transfers in accordance with Section 02 61 00.

3.06 RETIREMENT OF EXISTING SERVICE LINES

- A. Effectively cap existing service stub after service is transferred to new main.
- B. Repair of leaks that develop in existing service lines or mains due to service transfer operations are the responsibility of the Contractor and costs are incidental to service line transfer.

3.07 BACKFILL, COMPACTION, AND RESTORATION

- A. Backfill and compact excavations as specified in Section 02 22 00 for trenches.
- B. Restore affected areas as specified elsewhere and as shown on Plans.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. Pressure test water mains in accordance with this Section.

1.02 RELATED SECTIONS

- A. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- B. Section 02 64 00 – Valves and Hydrants

1.03 REFERENCES

- A. American Water Works Association (AWWA) C600 – Installation of Ductile Iron Water Mains and Their Appurtenances.
- B. American Water Works Association (AWWA) C605 – Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water.

1.04 SUBMITTALS (NOT USED)

1.05 MEASUREMENT AND PAYMENT

- A. Work under this Section incidental to Contract.

PART 2 PRODUCTS

NOT USED.

PART 3 EXECUTION

3.01 PRESSURE TESTING

- A. Perform Work in accordance with AWWA C600 and AWWA C605.
- B. Test piping at 150 psi or as indicated on plans for 2 hours.
- C. Fill and flush new piping with potable water, ensuring that all trapped air is removed.
- D. Isolate new piping from the existing system.
- E. Pressure test new piping in sections by isolating each section using in-line gate valves. Relieve pressure on non-test side of gate valve.
- F. Pressurize new piping to test pressure at lowest point in the isolated system. Do not pressurize to more than 5 psi over test pressure at lowest point in the isolated system.
- G. Monitor pressure in line being tested for a period of not less than 2 hours.
- H. If at any point during that 2-hour period the pressure drops to 5 psi below test pressure, re-pressurize by pumping water into the line in sufficient quantity to bring pressure back to between test pressure and 5 psi above test pressure. Accurately measure the quantity of water required to re-pressurize the main.
- I. At the end of the 2-hour period, if pressure in the line has dropped below test pressure, re-pressurize to test pressure. Accurately measure the quantity of water required to re-pressurize the main.

- J. Allowable leakage, in gallons, per hour of testing shall equal $(LD(P)^{1/2}) / 148,000$.
L = length of pipe section being tested in feet
D = nominal diameter of pipe in inches
P = average test pressure in psig
- K. Leakage equals total quantity of water required to keep line pressurized during the 2-hour test period and re-pressurize line at the end of the test period.
- L. If average leakage per hour is less than allowable leakage, the pressure test is acceptable.
- M. If average leakage per hour is more than allowable leakage, the pressure test is not acceptable.
Locate and make approved repairs as necessary until leakage is within specific allowance.
- N. If pressure in the isolated line never drops to test pressure, having started no more than 5 psi above test pressure, the pressure test is acceptable.
- O. Repair visible leaks regardless of the quantity of leakage.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. Disinfect water mains and 2-inch and larger water services in accordance with this Section.

1.02 RELATED SECTIONS

- A. Section 02 22 00 – Excavating, Backfilling, and Compacting for Water Mains.
- B. Section 02 22 80 – Horizontally Directional Drilled Water Main.
- C. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- D. Section 02 64 00 – Valves and Hydrants
- E. Section 02 66 00 – Water Service Transfers.

1.03 REFERENCES

- A. American Water Works Association (AWWA) B300 – Hypochlorites.
- B. American Water Works Association (AWWA) B301 – Liquid Chlorine.
- C. American Water Works Association (AWWA) C651 – Disinfecting Water Mains.

1.04 SUBMITTALS (NOT USED)

1.05 MEASUREMENT AND PAYMENT

- A. Work under this Section incidental to Contract.

PART 2 PRODUCTS

2.01 CHLORINE

- A. Calcium hypochlorite granules conforming to AWWA B300.
- B. Liquid chlorine conforming to AWWA B301.

2.02 DE-CHLORINATION CHEMICALS

- A. Vita-D-Chlor (Ascorbic Acid) by Integra Chemical Company.
- B. Vita-D-Chlor, Neutral (Sodium Ascorbate) by Integra Chemical Company.
- C. No-Chlor (Ascorbic Acid) by Measurement Technologies.
- D. Approved equal.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Water for disinfection will be provided by Owner for two disinfection attempts. If additional attempts are necessary, the Contractor will be billed for water used at the normal rate set for industrial customers.
- B. Perform disinfection of piping and appurtenances only after satisfactory pressure testing.
- C. Ensure piping to be disinfected is isolated from portion of distribution system that is in service.
- D. Review procedures and coordinate disinfection with Owner.
- E. Perform Work in accordance with AWWA C651.
- F. Bacteriological samples shall be taken and tested by Owner to ensure satisfactory disinfection.

3.02 CHLORINATION OF PIPING

- A. Provide equipment and materials necessary to complete chlorination.
- B. Use continuous feed method as outlined in AWWA C651.
- C. Prior to feeding chlorine, fill and flush new piping to remove trapped air and particulates. Provide equipment and materials necessary to obtain a minimum flushing velocity of 3.0 fps in piping to be disinfected. When flushing velocities of 3.0 fps cannot be obtained, swab pipe until pipe is free of debris. Type of swab and procedures for use shall be approved by Owner prior to its use.
- D. Induce flow of potable water through new piping at required flushing velocity. Make provisions for diverting and disposing of flushing water that does not damage surroundings. Repair damage caused by flushing activities.
- E. At a point within five pipe diameters of connection to existing distribution system, introduce highly chlorinated water in sufficient quantity to provide at least 25 mg/L free chlorine in the new piping. Provide all metering and feed equipment and temporary chlorination taps. Remove temporary chlorination taps and cap the main once the main passes.
- F. Introduce highly chlorinated water continuously until entire section of new piping contains a minimum of 25 mg/L free chlorine. Do not exceed 100 mg/L free chlorine.
- G. Isolate newly chlorinated piping for a contact period of at least 24 hours, and not more than 48 hours, taking care not to backflow chlorinated water into existing potable water system.
- H. After the contact period, water in new piping must have a residual-free chlorine content of not less than 10 mg/L. If residual is less than 10 mg/L, rechlorinate as outlined above.

3.03 FLUSHING CHLORINATED PIPING

- A. After the contact period, flush recently chlorinated piping with potable water.
- B. Continue flushing until chlorine residual in new piping is equal to chlorine residual in existing distribution system.
- C. Isolate new piping from existing distribution system for a period of not less than 24 hours.

- D. Chlorinated water, flushed from new piping, shall be dechlorinated and disposed of so not to cause damage to the environment. Conform to state and federal requirements.
- E. De-chlorinate all water from flushing activities and testing before it is released into the ground, stream, or storm sewers. Method to be approved by Owner prior to any flushing activities.

3.04 BACTERIOLOGICAL TESTING

- A. Immediately following flushing of pipelines and again at least 24 hours after flushing pipelines, samples will be taken and tested by Owner.
- B. The Owner reserves the right to take and test additional samples 48 hours after flushing.
- C. Approximately one sample will be taken for each 1,200 feet of new water main.
- D. Additional samples may be taken at the discretion of Owner.
- E. Samples must show the absence of coliform organisms and other contaminants and meet requirements of the Iowa Department of Natural Resources to be considered acceptable.
- F. If any sample is not satisfactory with either sampling, the piping represented by that sample must be flushed and rechlorinated by the Contractor at the discretion of, and as directed by, the Owner.

**** END OF SECTION ****

GENERAL NOTES - BORING LOG DESCRIPTIONS

Soil descriptions stated on the Boring Logs are based on the Unified Soil Classification System as stated in ASTM Designations D-2487 and D-2488. The Unified Soil Classification group symbol listed in the table below correlate to the group symbols listed on the Boring Logs. The classification is mainly based on visual observations to define the soil characteristics. If a more detailed soil description is required, additional soil testing will be conducted to better define the soil characteristics.

Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name
SW	Well-graded Sand	GW	Well-graded Gravel	CL	Lean Clay	CH	Fat Clay
SP	Poorly-graded Sand	GP	Poorly-graded Gravel	ML	Silt	MH	Elastic Silt
SM	Silty Sand	GM	Silty Gravel	OL or OH	Organic Silt	Pt	Peat
SC	Clayey Sand	GC	Clayey Gravel		Organic Clay		

RELATIVE DENSITY OF COARSE-GRAINED SOILS		CONSISTENCY OF FINE-GRAINED SOILS		
<i>SPT, bpf</i>	<i>Relative Density</i>	<i>Unconfined Compressive Strength, Q_u, psf</i>	<i>Consistency</i>	<i>SPT, bpf</i>
0-3	Very Loose	< 500	Very Soft	0 – 2
4-9	Loose	500 - 1,000	Soft	2 – 4
10-29	Medium Dense	1,001 - 2,000	Medium Stiff	4 – 8
30-49	Dense	2,001 – 4,000	Stiff	8 – 15
50-80	Very Dense	4,001 – 8,000	Very Stiff	15 – 30
80+	Extremely Dense	8,001 – 16,000	Hard	30 – 100
		>16,000	Very Hard	>100

GRAIN SIZE TERMINOLOGY		RELATIVE PROPORTIONS		
<i>Major Component of Sample</i>	<i>Size Range</i>	<i>Descriptive Terms(s) (of components also present in sample)</i>	<i>Fines Percent of Dry Weight</i>	<i>Sand and Gravel Percent of Dry Weight</i>
Cobbles	12 in. to 3 in. (300 mm to 75 mm)	Trace	< 5	< 15
Gravel	3 in. to #4 sieve (75 mm to 4.75 mm)	With	5 – 12	15 – 29
Sand	#4 to #200 sieve (4.75 mm to 0.074 mm)	Modifier	> 12	> 30
Silt or Clay	Passing #200 sieve (> 0.074 mm)			

DRILLING AND SAMPLING ABBREVIATIONS

Drilling Methods

CFA – Continuous Flight Auger; typically, 4, 6, or 8 inches in diameter (ASTM D 1452)

HSA – Hollow Stem Auger; 6 or 8 inches in diameter, continuous flight auger remains in bore hole with undisturbed soil samples obtained from center of auger.

HA – Hand Auger; typically with a 4 inch or less diameter auger

Sample Types

SS - Split Spoon; samples obtained with a 140 lb manual hammer in accordance with ASTM D1586.

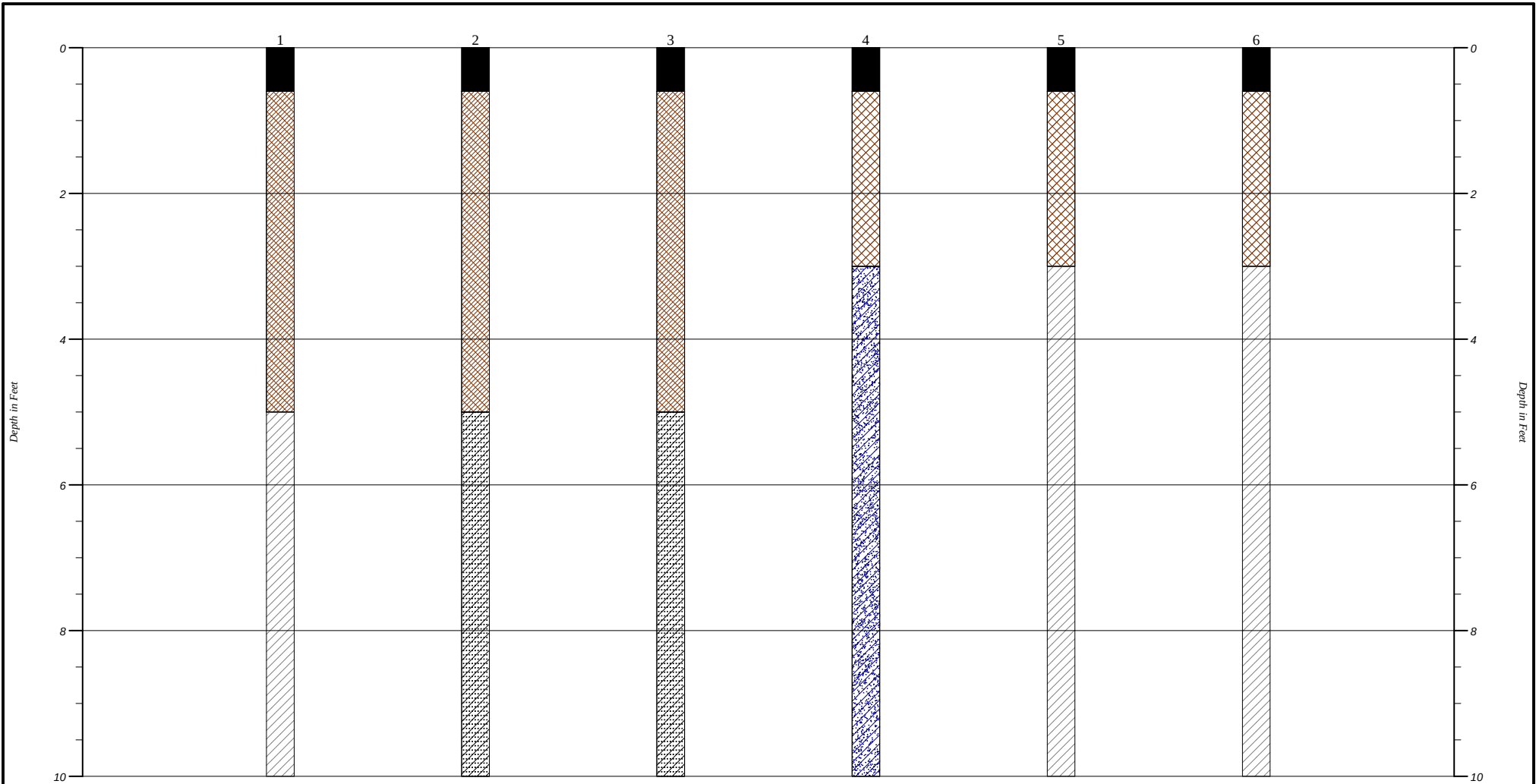
SSA – Split Spoon; samples obtained with a 140 lb automatic hammer in accordance with ASTM D 1586.

ST – Shelby Tube; thin walled tube samples, typically for cohesive soils, in accordance with ASTM D1587.

SPT- Standard Penetration Test: The number of blows required to drive a sampler, either split spoon or drive cone, into the soil with a 140 lb mass dropped a distance of 30 inches, in accordance with ASTM D 1586, and the number of blows are recorded in each 6 inch interval over a distance of 18 inches. Blow counts are reported for each 6 inch interval or the sum of the last two intervals is reported. The sum of the last two intervals is referred to as N, in blows per foot.

BS – Bulk Disturbed Sample

CPT – Cone Penetration Test; A device in which a 60° cone is pushed continuously into the soil and the cone end resistance is measured for skin friction and end bearing (ASTM D3441).



Plan View

Strata symbols

-  Paving
-  Fill
-  Lean clay
-  Clayey sand

 Sandy lean clay

CONSTRUCTION MATERIALS TESTING GENERALIZED SOIL PROFILE

HORIZONTAL
SCALE:

DRAWN BY/APPROVED BY

DATE DRAWN

VERTICAL
SCALE: 1"=2'

3/26/2024

68th Street Reconstruction

PROJECT NO. 242018CWH

FIGURE NUMBER



Project 68th Street Reconstruction

Boring # 1

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±2.0 inches HMA, ±5.0 inches PCC		
2								Dark brown very sandy lean clay, moist to very moist	CL	
4	1	CS		26.8		2,000**		EXISTING FILL		
6								Very dark brown silty lean clay, trace sand, moist	CL	
8								COHESIVE ALLUVIUM		
10	2	CS		23.7		3,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 2

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±6.0 inches PCC		
2								Dark yellowish brown very sandy lean clay, moist	CL	
4	1	CS		20.9		2,500**		EXISTING FILL		
6								Yellowish brown clayey sand, moist	SC	
8								GRANULAR ALLUVIUM		
10	2	CS		15.8		3,500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 3

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±5.0 inches PCC		
2								Dark yellowish brown very sandy lean clay, moist	CL	
4	1	CS		18.3		3,000**		EXISTING FILL		
6								Rusty-brown clayey sand, moist	SC	
8								GRANULAR ALLUVIUM		
10	2	CS		11.0		4,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 4

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±5.0 inches PCC		
								Gray-rusty-brown sandy lean clay, moist	CL	
2								EXISTING FILL		
								Gray-rusty-brown sandy lean clay, trace gravel, moist	CL	
4	1	CS		21.6		2,000**				
6								COHESIVE ALLUVIUM		
8										
10	2	CS		22.9		2,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 5

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.0 inches HMA, ±5.5 inches PCC		
								Dark yellowish brown sandy lean clay, moist	CL	
2								EXISTING FILL		
								Gray-rusty-brown silty lean clay, trace sand, moist	CL	
4	1	CS		20.7		3,000**				
6								COHESIVE ALLUVIUM		
8										
10	2	CS		22.1		2,500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

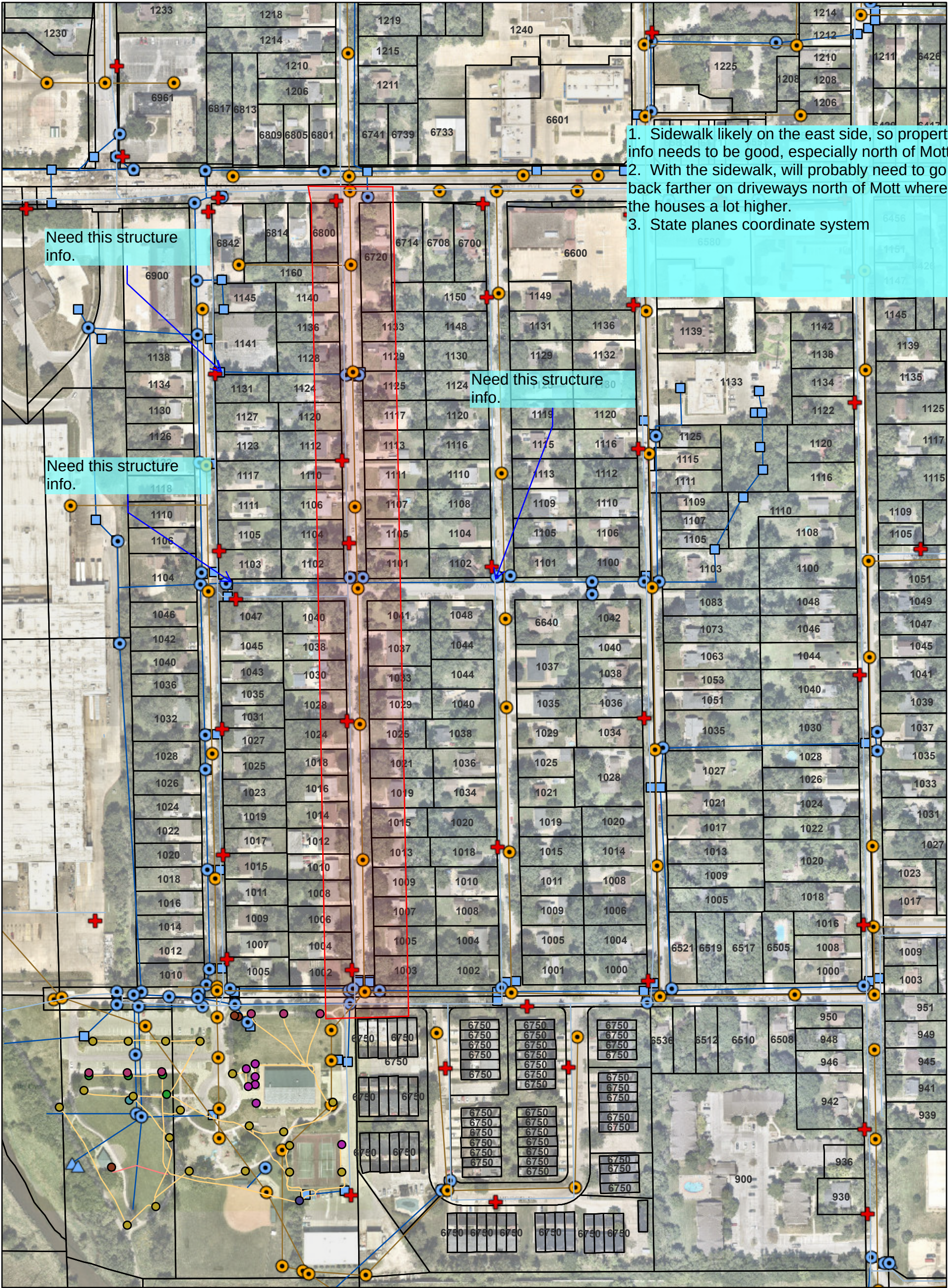
Boring # 6

Client City of Windsor Heights

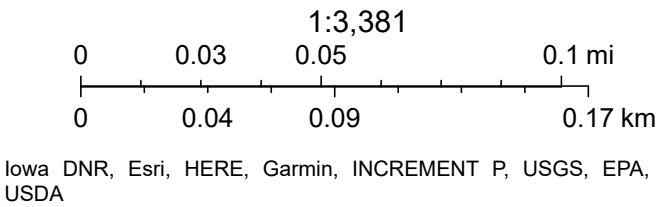
Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±6.5 inches PCC		
								Dark brown sandy lean clay, moist to very moist	CL	
2								EXISTING FILL		
								Gray-rusty-brown silty lean clay, trace sand, moist	CL	
4	1	CS		26.2		2,000**				
6								COHESIVE ALLUVIUM		
8										
10	2	CS		23.1		3,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		

Windsor Heights Utility Viewer



2/8/2024



APPENDIX
FOR
68TH STREET IMPROVEMENT PROJECT
CITY OF WINDSOR HEIGHTS
WINDSOR HEIGHTS, IOWA

GENERAL NOTES - BORING LOG DESCRIPTIONS

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80+	Extremely Dense	8,001 – 16,000	Hard	30 – 100
		>16,000	Very Hard	>100

GRAIN SIZE TERMINOLOGY		RELATIVE PROPORTIONS		
<i>Major Component of Sample</i>	<i>Size Range</i>	<i>Descriptive Terms(s) (of components also present in sample)</i>	<i>Fines Percent of Dry Weight</i>	<i>Sand and Gravel Percent of Dry Weight</i>
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Gravel	3 in. to #4 sieve (75 mm to 4.75 mm)	With	5 – 12	15 – 29
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Silt or Clay	Passing #200 sieve (> 0.074 mm)			

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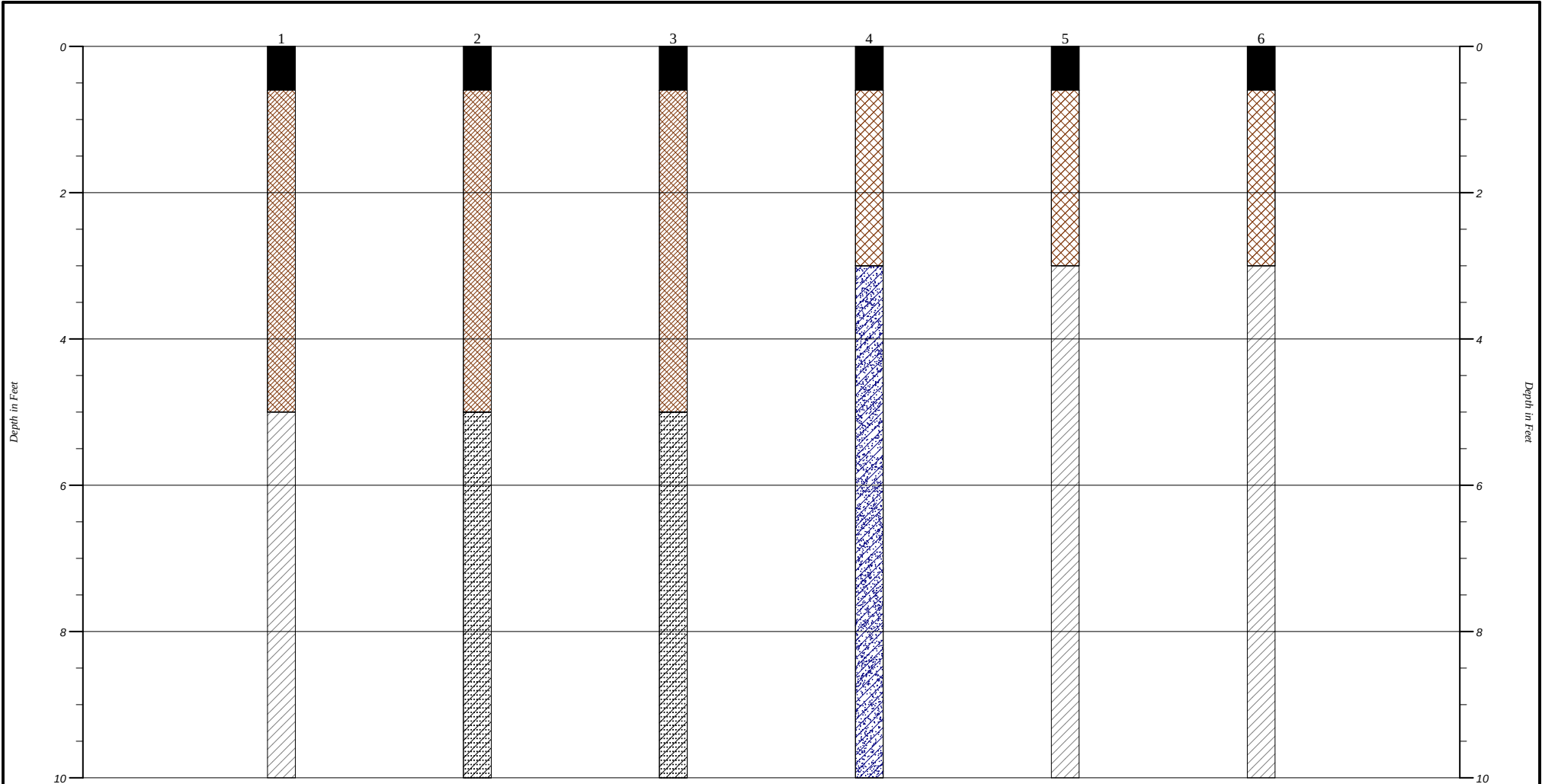
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Plan View

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-  Fill
-  Lean clay
-  Clayey sand

 Sandy lean clay

CONSTRUCTION MATERIALS TESTING GENERALIZED SOIL PROFILE

HORIZONTAL
SCALE:
VERTICAL
SCALE: 1"=2'

DRAWN BY/APPROVED BY

DATE DRAWN

3/26/2024

68th Street Reconstruction

PROJECT NO. 242018CWH

FIGURE NUMBER



Project 68th Street Reconstruction

Boring # 1

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

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4	1	CS		26.8		2,000**		EXISTING FILL		
6								Very dark brown silty lean clay, trace sand, moist	CL	
8								COHESIVE ALLUVIUM		
10	2	CS		23.7		3,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 2

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±6.0 inches PCC		
2								Dark yellowish brown very sandy lean clay, moist	CL	
4	1	CS		20.9		2,500**		EXISTING FILL		
6								Yellowish brown clayey sand, moist	SC	
8								GRANULAR ALLUVIUM		
10	2	CS		15.8		3,500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 3

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±5.0 inches PCC		
2								Dark yellowish brown very sandy lean clay, moist	CL	
4	1	CS		18.3		3,000**		EXISTING FILL		
6								Rusty-brown clayey sand, moist	SC	
8								GRANULAR ALLUVIUM		
10	2	CS		11.0		4,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 4

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±5.0 inches PCC		
								Gray-rusty-brown sandy lean clay, moist	CL	
2								EXISTING FILL		
								Gray-rusty-brown sandy lean clay, trace gravel, moist	CL	
4	1	CS		21.6		2,000**				
6								COHESIVE ALLUVIUM		
8										
10	2	CS		22.9		2,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 5

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.0 inches HMA, ±5.5 inches PCC		
								Dark yellowish brown sandy lean clay, moist	CL	
2								EXISTING FILL		
								Gray-rusty-brown silty lean clay, trace sand, moist	CL	
4	1	CS		20.7		3,000**				
6								COHESIVE ALLUVIUM		
8										
10	2	CS		22.1		2,500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

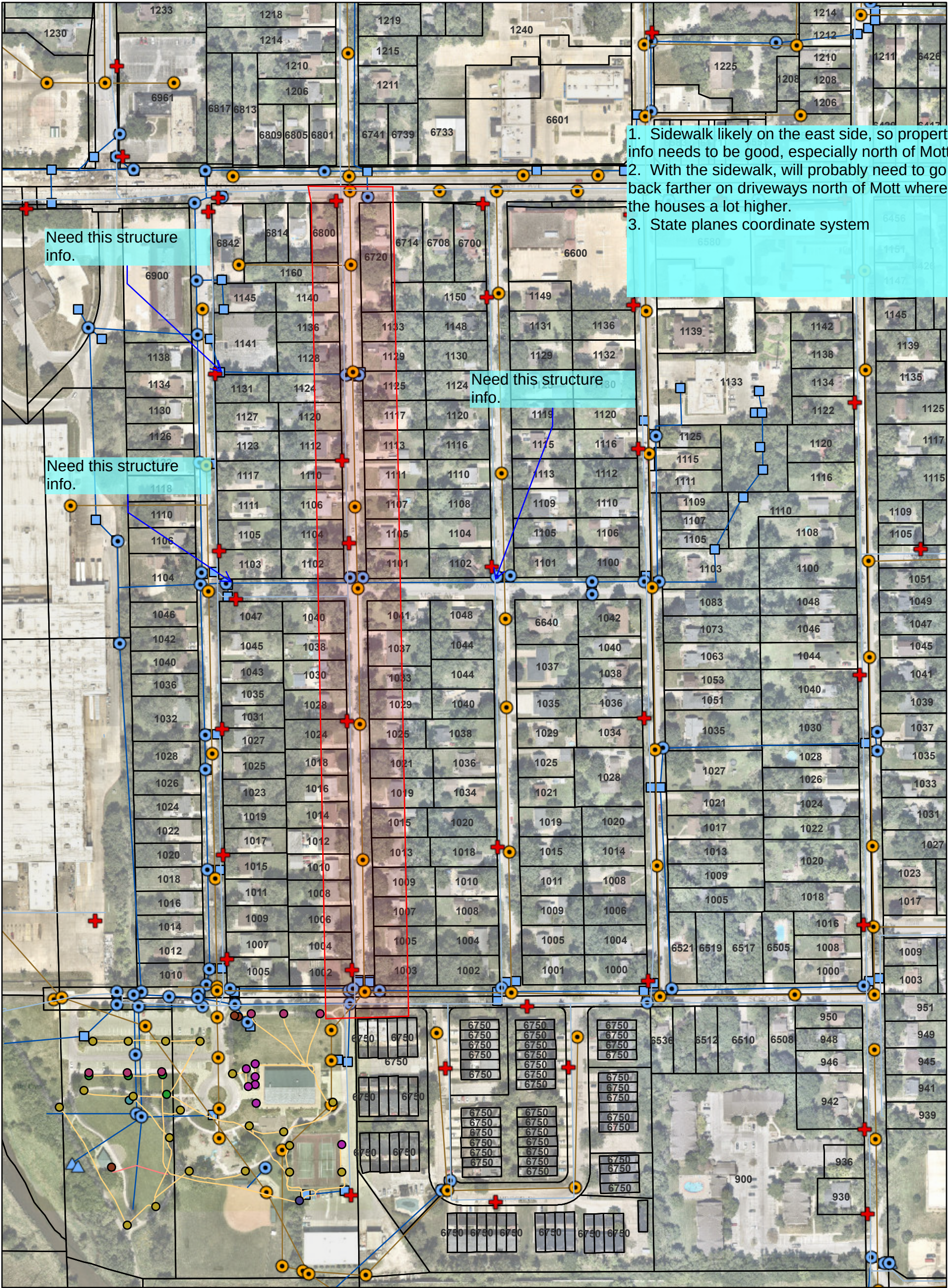
Boring # 6

Client City of Windsor Heights

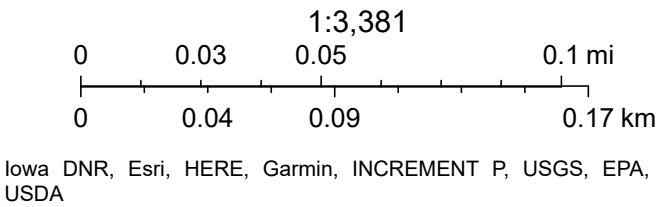
Surface Elev. Existing Ground Surface

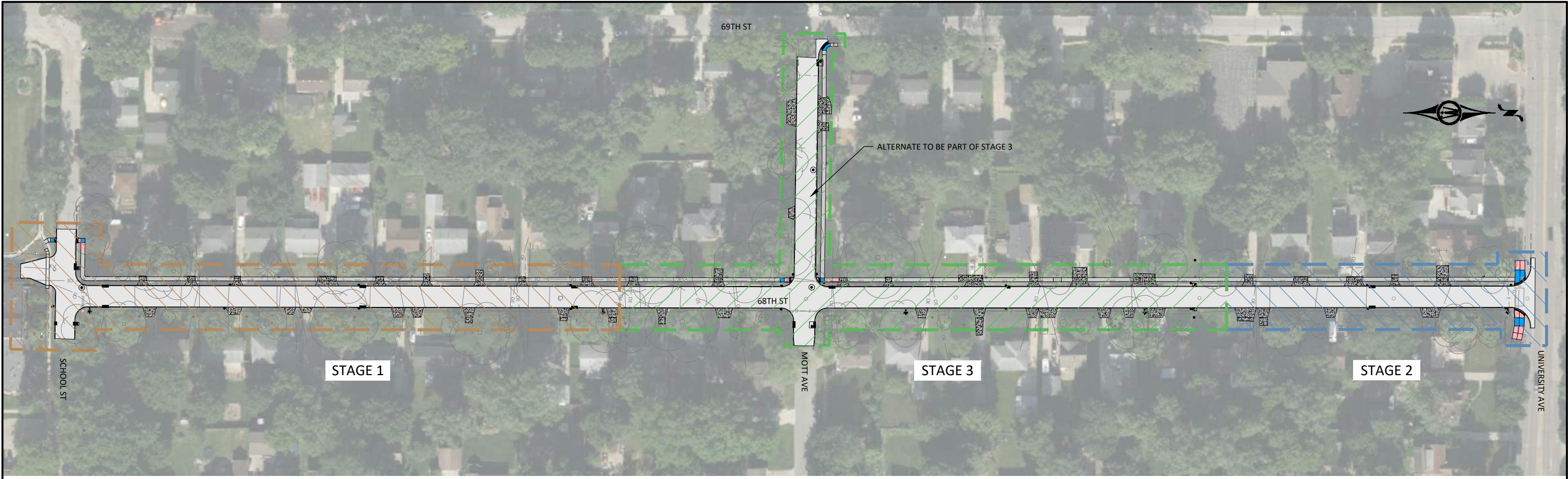
Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±6.5 inches PCC		
								Dark brown sandy lean clay, moist to very moist	CL	
2								EXISTING FILL		
								Gray-rusty-brown silty lean clay, trace sand, moist	CL	
4	1	CS		26.2		2,000**				
6								COHESIVE ALLUVIUM		
8										
10	2	CS		23.1		3,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		

Windsor Heights Utility Viewer



2/8/2024





STAGING NOTES:

- 1. THE CONTRACTOR IS TO CONSTRUCT THE PROJECT IN 3 STAGES. THE CONTRACTOR SHALL PROVIDE A STAGING PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 2. ANY ADJUSTMENT TO THE STAGING/TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF WINDSOR HEIGHTS AND ENGINEER ON RECORD A MINIMUM OF TWO WEEKS IN ADVANCE.
- 3. THE CONTRACTOR SHALL REQUEST, IN WRITING, PERMISSION TO START EACH STAGE OF THE PROJECT AND SUBMIT AN UPDATED SCHEDULE FOR EACH STAGE UNDER CONSTRUCTION
- 4. THE ROAD SHALL BE SCRAPPED AND BROOMED PRIOR TO OPENING THE STREET TO TRAFFIC.
- 5. SITE RESTORATION SHALL BE COMPLETED PRIOR TO NEXT STAGE STARTING OR APPROVED BY ENGINEER.
- 6. REFER TO WATER MAIN PLANS FOR WATER MAIN PHASING.
- 7. WATER MAIN DESIGN ASSUMES WATER MAIN WILL BE INSTALLED STARTING AT SCHOOL STREET AND ENDING AT UNIVERSITY AVENUE.
- 8. PROPOSED CHANGES TO STAGING MUST BE REVIEW BY DMWW.

MAINTAINING MOBILITY FOR HANDICAPPED RESIDENTS:

- 1. DUE TO THE MOBILITY ISSUES OF SEVERAL RESIDENTS ALONG THE CORRIDOR, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN RUBBER MATTING PROVIDED BY THE CITY AND INSTALLED AS DIRECTED BY ENGINEER.
- 2. CONTRACTOR TO MAINTAIN TEMPORARY SIDEWALK AND DRIVEWAY GRADING.

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P:\WINDSOR\G:\160413\3739\CAD\160413\3739.dwg 12/12/2024 11:32:03 AM



430 E GRAND AVENUE, SUITE 101
DES MOINES, IA 50309
Phone: (515) 259-9190
Email: DesMoines@bolton-menk.com
www.bolton-menk.com

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PL			
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CLIENT PROJ. NO.			
0A1.133739			

CITY OF WINDSOR HEIGHTS, IOWA	SHEET J.02
68TH STREET SOUTH RECONSTRUCTION	
STAGING AND TRAFFIC CONTROL - 68TH STREET	



**STAFF REPORT
CITY COUNCIL**
December 16, 2024

TO: CITY COUNCIL
FROM: Adam Plagge, City Administrator
SUBJECT: Consideration of 63rd Street Barrier

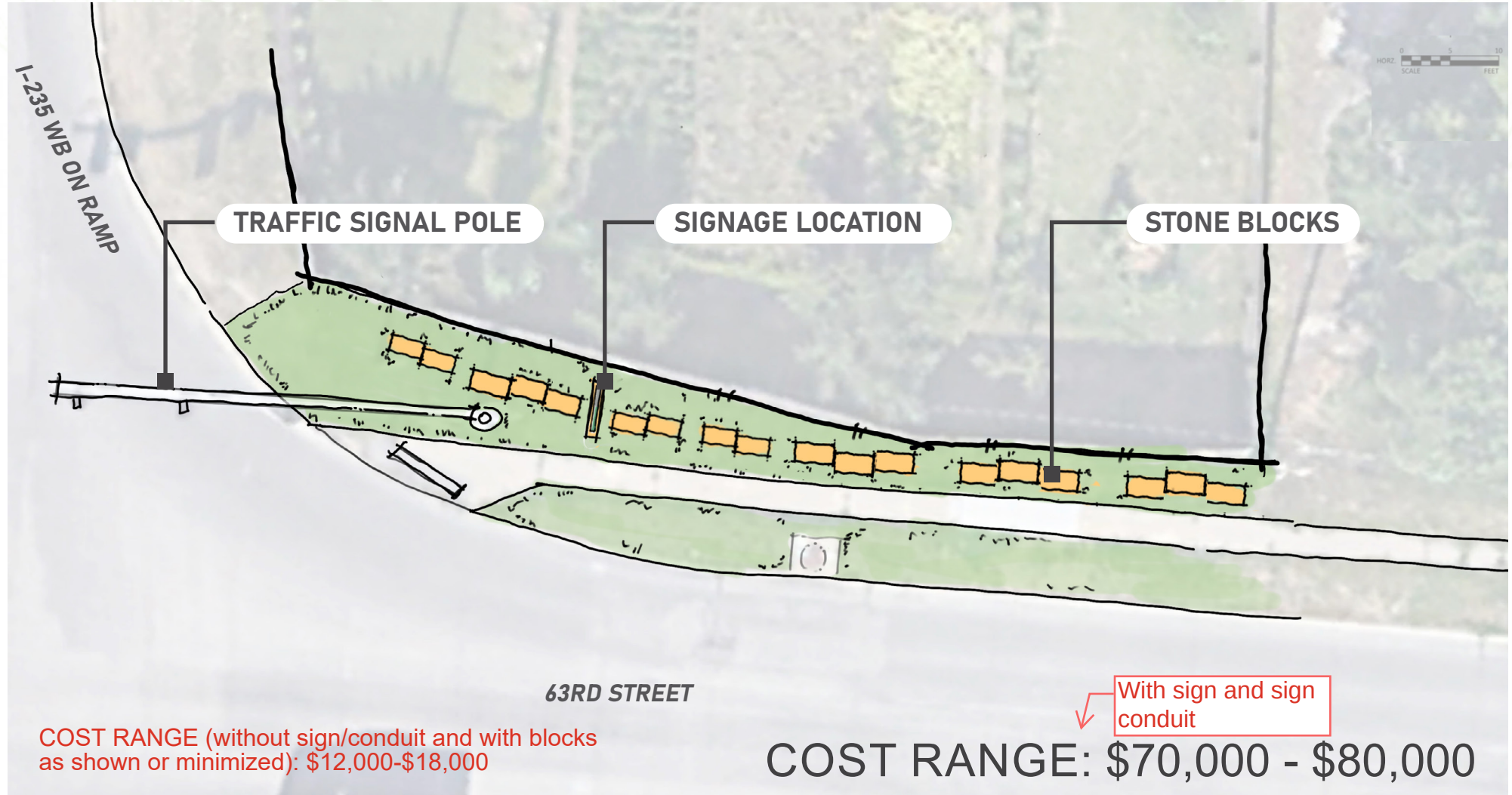
GENERAL INFORMATION

ATTACHMENTS

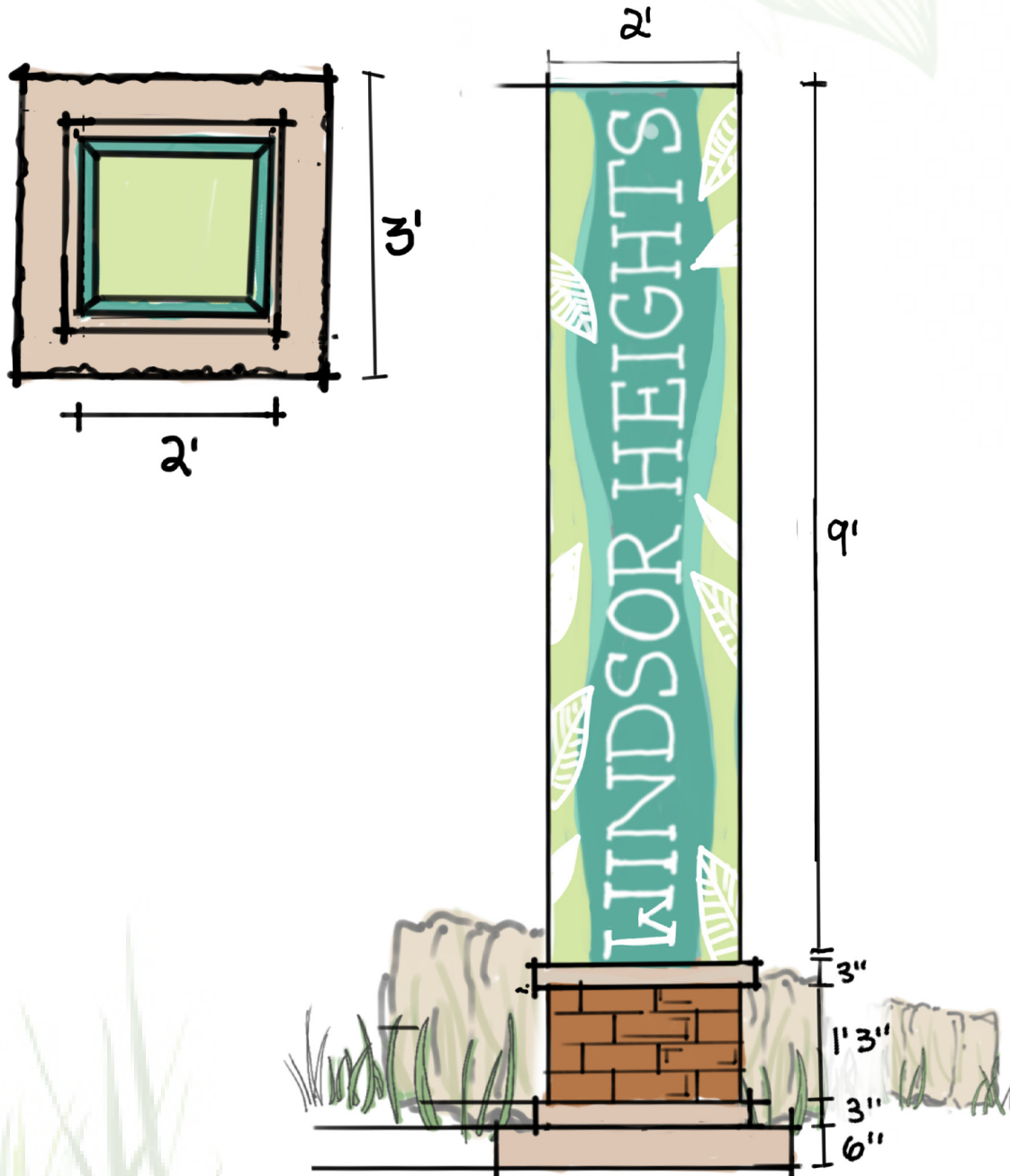
1. 2024-12-12_63RD STREET CAR BARRIER STUDY
2. Public Comment

63RD STREET - CAR BARRIER STUDY

SITE CONCEPT



EXISTING MONUMENTATION



PROPOSED FEATURES:

- BRICK BASE
- 11' HEIGHT, 3' BASE
- 9' ALUMINUM CABINET
- CITY LOGO BRANDING
- 8 INCH TEXT

SIGNAGE EXPLORATION - ALTERNATIVE A

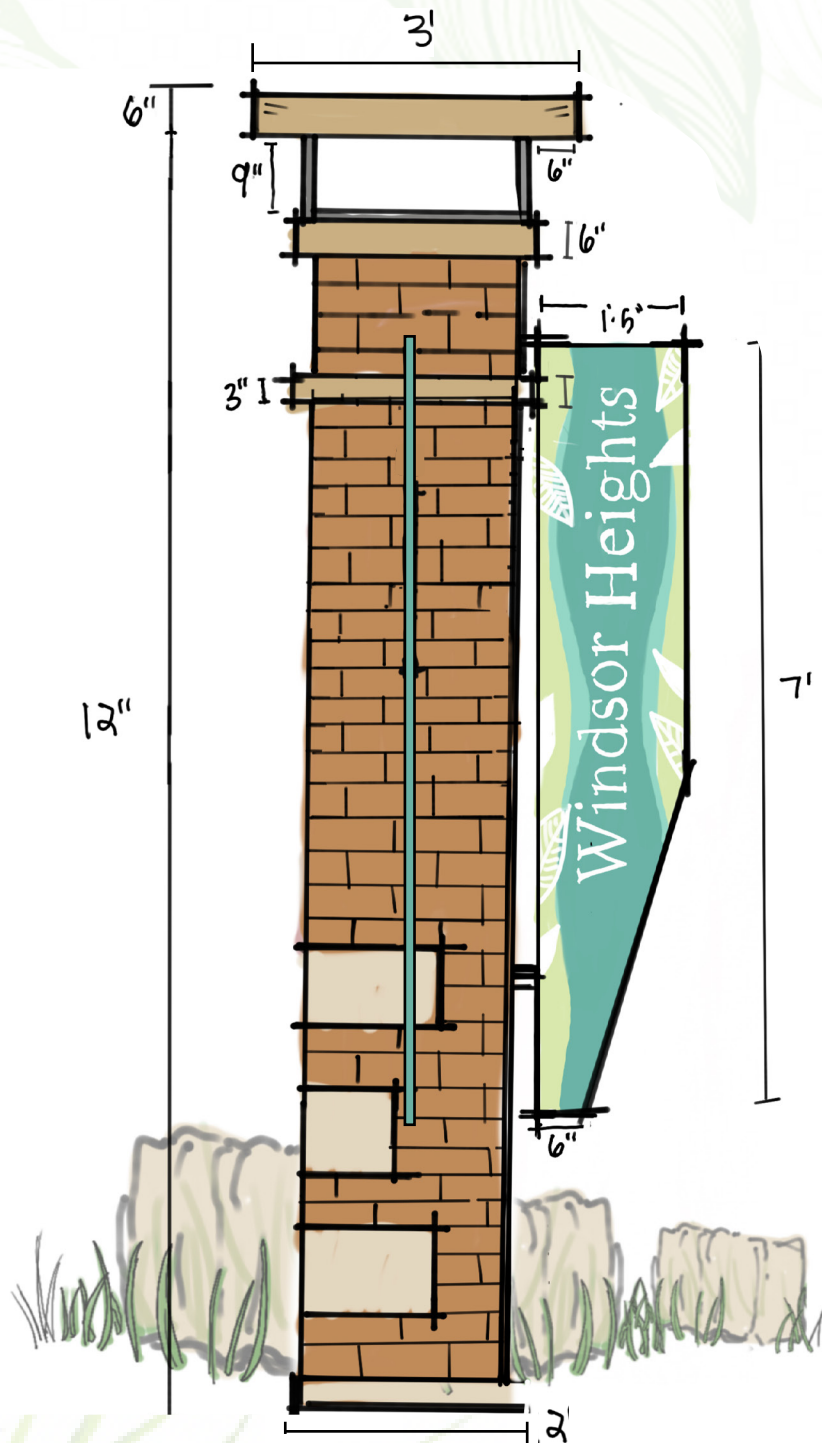
DECEMBER 2024

EXISTING MONUMENTATION



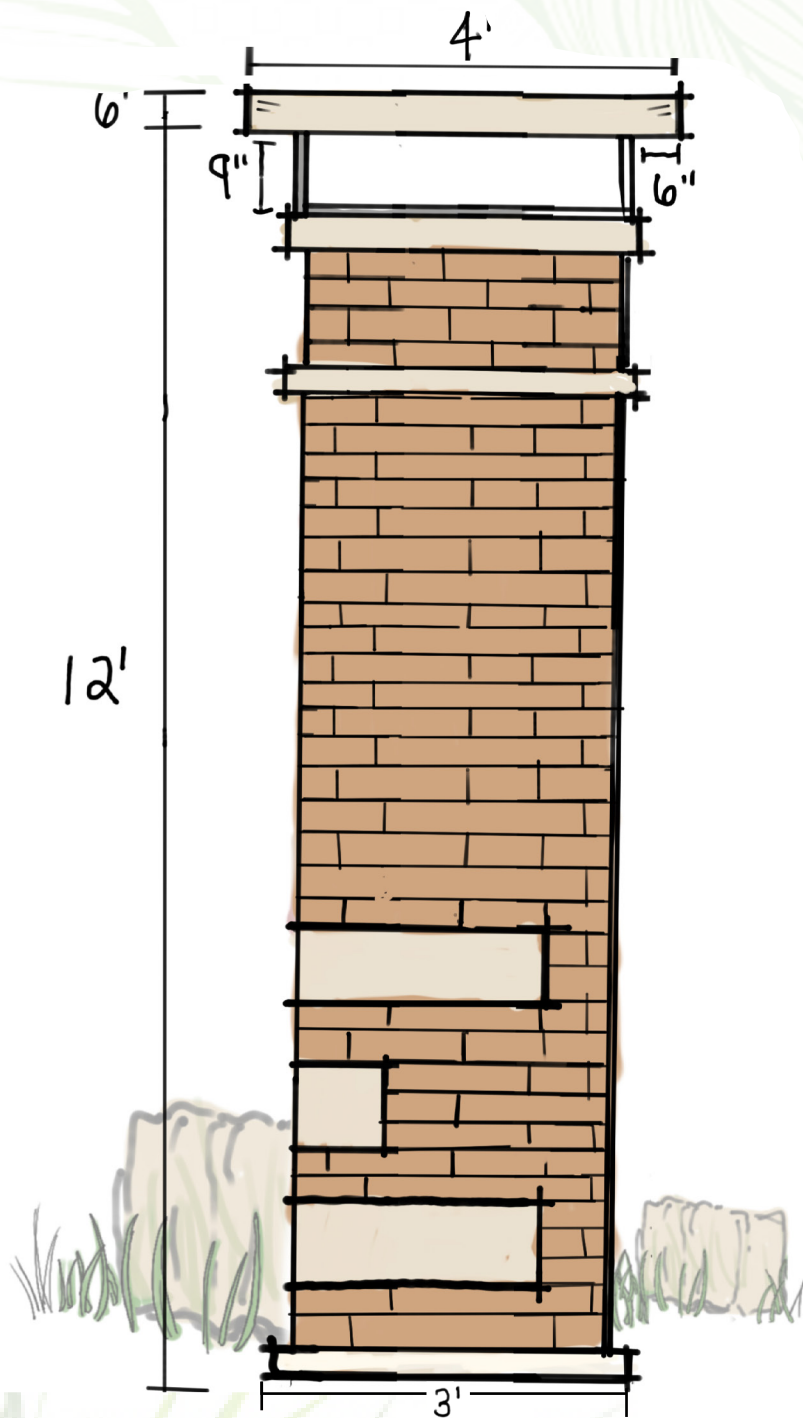
PROPOSED FEATURES:

- LIGHT FIXTURE AT TOP CAP
- 7' BANNER
- 12' HEIGHT 2' BASE, 3' CAP
- MATCHES EXISTING MONUMENTATION MATERIALITY
- 8 INCH TEXT



SIGNAGE EXPLORATION - ALTERNATIVE B

DECEMBER 2024



EXISTING MONUMENTATION



PROPOSED FEATURES:

- MARKER MONUMENT ONLY, NO SIGN.
- LIGHT FIXTURE AT TOP CAP
- 12' HEIGHT 3' BASE, 4' CAP
- MATCHES EXISTING MONUMENTATION MATERIALITY

SIGNAGE EXPLORATION - ALTERNATIVE C

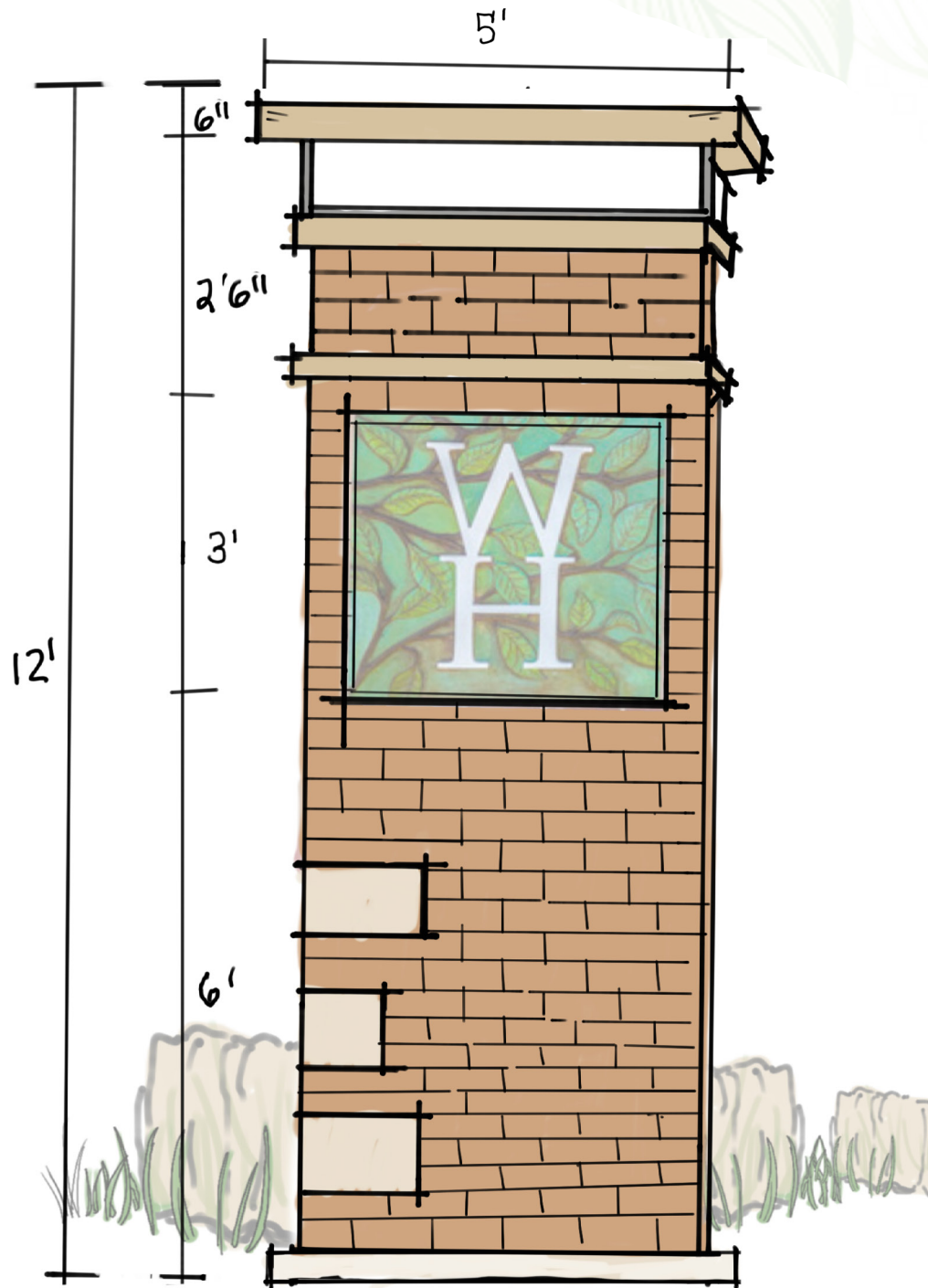
DECEMBER 2024

EXISTING MONUMENTATION



PROPOSED FEATURES:

- LIGHT FIXTURE AT TOP CAP
- CITY MONUMENT LOGO
- 12' HEIGHT 5' BASE
- MATCHES EXISTING MONUMENTATION MATERIALITY



SIGNAGE EXPLORATION - ALTERNATIVE D

DECEMBER 2024

From: [Adam Plagge](#)
To: [Adam Strait](#)
Subject: FW: 63rd St. Barrier Update
Date: Monday, December 16, 2024 8:19:13 AM
Attachments: [image001.png](#)

From: NERMIN BAKALBASIC <bakalbasic@msn.com>
Sent: Sunday, December 15, 2024 11:02 PM
To: Adam Plagge <aplagge@windsorheights.org>
Subject: Re: 63rd St. Barrier Update

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Subject: Appreciation for Project Update and Sign Proposal

Dear City Council Members,

I hope this message finds you well. I want to extend my sincere thanks for the recent update regarding the ongoing project. I am particularly thrilled about the idea of adding a Windsor High sign. I believe it will significantly enhance the aesthetic appeal of the area and effectively mark the boundary between Des Moines and Windsor Heights.

The signs that have already been placed along 63rd Street, showcasing the name Windsor Heights, look beautiful and truly contribute to the charm of our community. I'm excited to see how the addition of the Windsor High sign will further elevate the project.

As I mentioned previously, I am more than willing to take on the responsibility of maintaining that corner, including basic tasks such as grass cutting, trimming, and weed control. I believe that with a little care, we can make this area even more inviting for everyone.

Thank you once again for your efforts and consideration. I look forward to seeing the positive changes in our neighborhood!

Warm regards,

Nermin Bakalbasic

905 64th Street
Windsor Heights
515-238-8046

Get [Outlook for iOS](#)

From: Adam Plagge <aplagge@windsorheights.org>

Sent: Thursday, December 12, 2024 12:44:06 PM

To: NERMIN BAKALBASIC <bakalbasic@msn.com>

Subject: 63rd St. Barrier Update

Good Afternoon,

Council will be provided the attached information Monday. Included in the updated barrier concept is the possibility of incorporating a Windsor Heights sign, though the cost is significant so not sure about the likelihood of that transpiring. The intention would be to install the barrier during next fiscal year which starts July 1st.

I understand you are agreeable to continuing to mow the area with the rock barriers installed. If that is incorrect, please let me know.

Feel free to give me a call with any questions!

Thank you,



Adam (AJ) Plagge
City Administrator
City of Windsor Heights
[1145 66th St Suite 1 Windsor Heights, IA 50324](#)
office: 515-645-6808
cell: 515-343-7424
aplagge@windsorheights.org
[web](#) | [Facebook](#) | [twitter](#)



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Adam Plagge, City Administrator

SUBJECT: Consideration of Colby Park Food Truck Plaza Seating

GENERAL INFORMATION

ATTACHMENTS

1. 2024-12-12 Colby Park Food Truck Furnishings

COLBY PARK

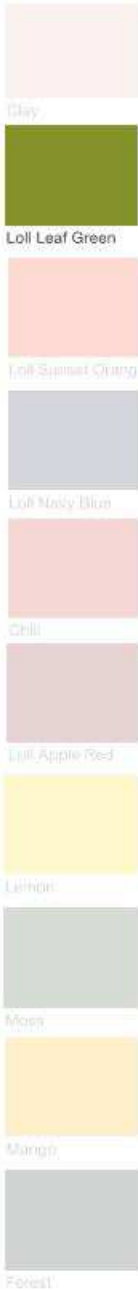
FOOD TRUCK PLAZA DINING-ALTERNATIVES

Take-Out

Product Data Sheet



Designed by Rodrigo Torres, Take-Out brings modern refinement, simplified lines and unparalleled versatility to the connected seating category. Light enough to be picked up, arranged and rearranged, Take-Out opens up new ways for people to connect in outdoor spaces—face-to-face or abreast, an intimate chat or a large group gathering. Five different silhouettes can either stand alone or work together in myriad arrangements. Take-Out's design and component materials are simple, concise and intended to make a compelling visual statement with a strong value proposition.



Take-Out Pricing

FULL TRIPLE NOTE:
THE FULL TRIPLE IS 37.5"x 30.0" x 71.5" at \$2700 EA



TAKE OUT TABLE + BENCH

SURFACE MOUNT OR FREESTANDING
ALL UNITS COME WITH 2 BAG HOOKS.
SHIPS FULLY ASSEMBLED

SINGLE UNITS = \$1590
37.5" x 30.0" x 30.3"



TAKE OUT TABLE + BENCH

SURFACE MOUNT OR FREESTANDING
ALL UNITS COME WITH 2 BAG HOOKS.
SHIPS FULLY ASSEMBLED

RIGHT TRIPLE = \$2580
37.5" x 30.0" x 71.5"



TAKE OUT TABLE + BENCH

SURFACE MOUNT OR FREESTANDING
ALL UNITS COME WITH 2 BAG HOOKS.
SHIPS FULLY ASSEMBLED

DOUBLE UNITS= \$2250
37.5" x 30.0" x 52.5"



TAKE OUT TABLE + BENCH

SURFACE MOUNT OR FREESTANDING
ALL UNITS COME WITH 2 BAG HOOKS.
SHIPS FULLY ASSEMBLED

LEFT TRIPLE = \$2580
37.5" x 30.0" x 71.5"

COLBY PARK

FOOD TRUCK PLAZA DINING-ALTERNATIVES

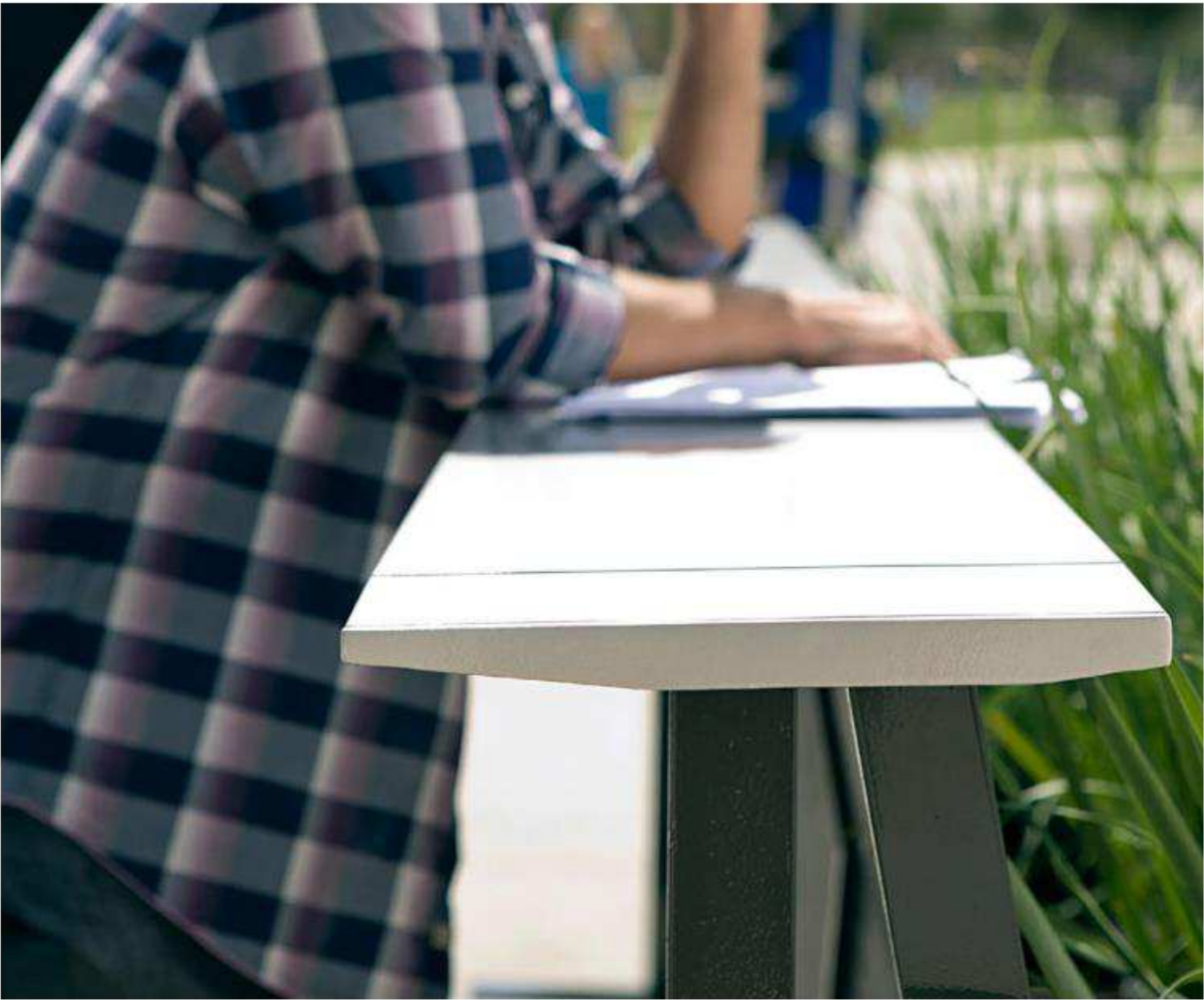
JESSIE
Product Data Sheet



Jessie Pricing



This Jessie rail is a stand-up performer. With the 3' top it is the perfect leaning rail at transit stops. With the 12' top it becomes a convenient café or bar counter. Standing alone, it stakes out space. With mesh infill, it provides separation and enclosure for restaurants with sidewalk seating.



- Clay
- Loli Leaf Green
- Loli Sunset Orange
- Loli Navy Blue
- Chai
- Loli Apple Red
- London
- Moss
- Mango
- Forest



JESSIE BAR TOP
OPEN
SURFACEMOUNT
BASIC UNITS = \$2900 EACH
EXPANSION UNITS = \$1090 EACH



JESSIE BAR TOP
BACKREST
SURFACEMOUNT
BASIC UNITS = \$3560 EACH
EXPANSION UNITS = \$1410 EACH

BASIC UNITS: 6"D x 42"H x 106"L
EXPANSION UNITS: 6"D x 42"H x 50"L
**Can do special length units per your site

COLBY PARK

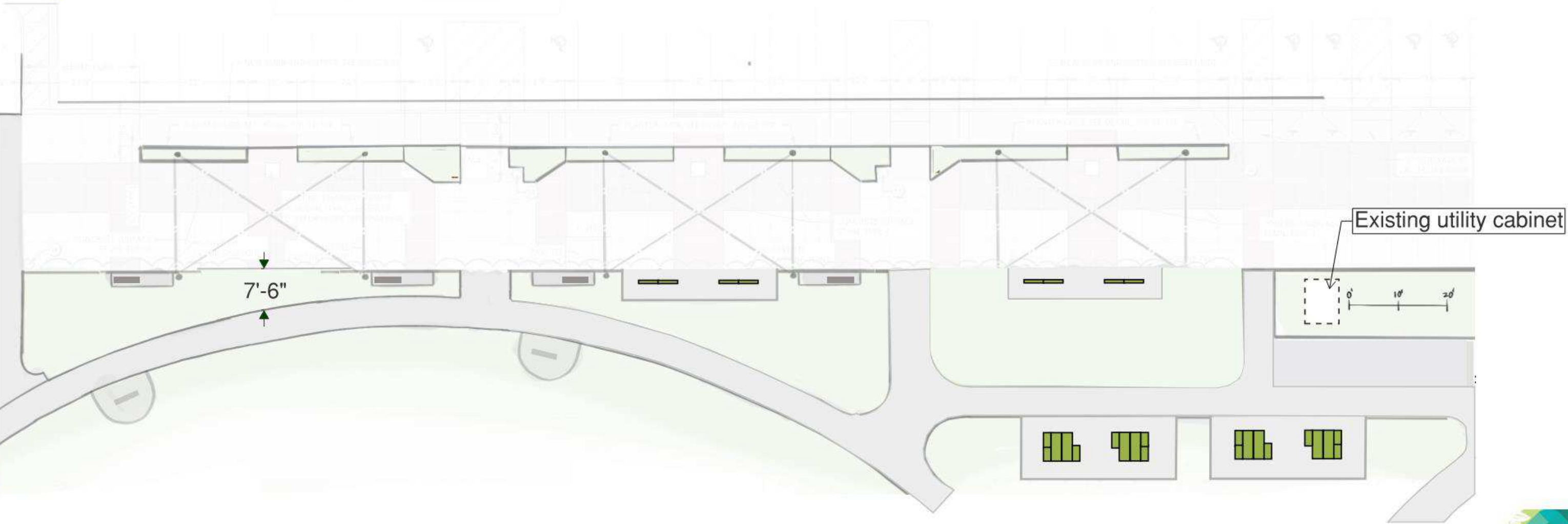
FOOD TRUCK PLAZA DINING-ALTERNATIVE

JESSIE

Take-Out



FURNISHING COST: \$44,400
PROPOSED PAVEMENT: \$9,500 (120 SY)
TOTAL: \$53,900





STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Susan Skeries, Council Member

SUBJECT: Consideration of the 2025 Special Events Calendar

GENERAL INFORMATION

DRAFT Special Events 2025 Dates

No revisions have been proposed to the schedule below, though a few tentative adjustments may still be made. The calendar of events for next year will be posted on the City's website once approved.

April 19- Easter Egg Hunt- FD planned

April 26- Earth Day

May 2- Movie in the Park

May 30- Tentative Touch A Truck, Ribbon Cutting for Colby Park, & Movie In Park

June 6- Alternative June Movie in the Park Date

June 6-7 Tentative Community Garage Sale

June 14th – Spring Clean-up

August 1- Movie in the Park

August 5- National Night Out- PD planned

September 5- Movie in the Park

October 3-4 Movie/Fall Festival

November 11- Veterans Day

December 6- Windsor Wonderland/Movie in the Park

December TBD- Santa rides around town- FD planned

Date TBD- Possible date night movie

ATTACHMENTS

None



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM:

SUBJECT: Discuss 2025 City Council Goals

GENERAL INFORMATION

ATTACHMENTS

1. Draft 2025 City Council Goals



To: Mayor and City Council
From: Adam Plagge, City Administrator
Subject: Discuss 2025 City Council Goals

Below are the 2024 City Council Goals, as revised by the Council last December. Staff have included updates on related actions undertaken in blue. If the City Council desires further details on progress toward these goals, staff will be available to address questions during the City Council meeting. Additionally, follow-up information or staff recommendations can be provided at the January 21st City Council meeting, when adoption of the goals is expected to be considered.

COMMUNITY VISION STATEMENT

Working together to build the best small city in the metro

The City of Windsor Heights is uniquely positioned within the Des Moines metro. As a land-locked suburb the community must think creatively about how to attract and retain businesses, customers, and residents as growth options will be required to be innovative and likely grass-roots efforts. In order to be proactive in learning and planning for the future, the city completed a visioning and data collection process to assist with future planning.

COMMUNITY MISSION STATEMENT

The mission of Windsor Heights is to provide our residents, businesses, and visitors a safe environment and exceptional city services through a team-oriented and fiscally responsible approach in order to create a unique, sustainably vibrant community.

2024 CITY COUNCIL GOALS

Goal #1 – Focus City services, resources, and cooperative partnerships on creating and maintaining a **safe community** for all residents, businesses and visitors.

In 2024, staff turnover significantly decreased compared to 2023, accompanied by notable improvements in staffing levels as highlighted by the FD Chief. Additionally, Pontifex recently completed a draft salary study aimed at ensuring competitive wages. Several new vehicles have also been added to the fleet or are on order, including a Sienna Hybrid, marking the third hybrid vehicle in the PD fleet. Half of the CEC tables will be replaced this winter. The City has also rejoined Iowa Stormwater Education Partnership.

Objective A: Recruit and train quality staff while maintaining adequate staffing levels in all departments, including 24/7 paramedic staffing.

Objective B: Implement policies and practices leading to clean air and protection of water resources – i.e. expanding anti-smoking initiatives and membership in Central Iowa Water Trails efforts.

Objective C: Replace aging vehicles and equipment and continue the transition to fuel efficient vehicles as practical.

Objective D: The City should work to become the employer of choice for our employees, and perspective employees, by ensuring alignment of wages, benefits, and employee support to create a positive and engaging work environment.

Goal #2 – Develop and implement processes to ensure delivery of **exceptional City services**.

The completion of the Colby Park improvements has enhanced recreational opportunities for residents, and programming partnerships have been reinstated with the DSM Library and Community Center YOGA. PD and FD are continuing to explore intergovernmental agreement opportunities spanning vehicle sharing, OWI intake and mental health intervention services. Additionally, new youth camp collaborations with the YMCA are under consideration. Nuisance enforcement continues to be a priority, with the next quarterly nuisance report scheduled for release in January. Door hangers are now placed for lawn violations to speed of enforcement.

Objective A: Pursue shared and contracted services with neighboring community partners in service delivery on recreational programming, and traffic signal operation and maintenance.

Objective B: Revise the City’s code of ordinances to address outdated regulations.

Objective C: Improve the City’s enforcement of nuisance violations in an effort to cleanup properties throughout the community.

Goal #3 – Protect the **financial future** of the City through reasonable and well-thought-out fiscal policies and adherence to generally accepted government finance practices.

The ERP and CIP are being annually scrutinized and updated. Obtaining grants, of which seven were received by the City in 2024 remains a priority as does efficient utilization of the recently increased storm water revenues and TIF dollars on eligible projects. Grants received in 2024 include the Polk County Community Grant, Prairie Meadows youth sports grant and a food truck plaza grant, STBG Grant, Mid-American Tree planting grant, BRAVO Public Art Plan Grant and a Wellmark trail resurfacing grant. Last year’s audit produced a positive result, and the current audit is underway without any issues having presented themselves.

Objective A: Update the Equipment Revolving Program (ERP) annually.

Objective B: Update the Capital Improvement Program (CIP) annually and periodically review and adjust utility capital improvement fund rates to generate sufficient revenue to implement scheduled CIP projects

Objective C: Establish a standard budgeting process that will institute continuity that will allow multi-year analysis and decision-making.

[Type text]

Objective D: Receive a clean fiscal year audit report.

Objective E: Investigate and pursue new revenue streams.

Goal #4 – Create and maintain a **high-functioning City team** of elected officials, professional staff and volunteer board members via regular and pertinent training and continuing education opportunities.

The Employee Handbook was updated last year and is now scheduled for annual reviews to incorporate additional updates. Staff routinely participate in relevant training sessions, with Public Works personnel expanding their coursework to earn certifications in chemical spraying and playground equipment maintenance. Furthermore, all employees are now required to complete pertinent coursework through Neogov.com on an annual basis.

Objective A: ~~Annually R~~review and revise the Council and employee handbooks.

Objective B: Identify and allocate resources to support ongoing employee training focused upon improving customer service.

Objective C: Develop a retention and succession plan to prepare for future employee turnover.

Goal #5 – Build a **unique and sustainably vibrant community** that contributes to the overall character of the Greater Des Moines region.

The city is currently undertaking a Public Art Master Plan of which the first draft is expected by early January. Several tree canopy initiatives were undertaken in 2024 including ROW tree planting, tiny tree giveaways, and a current update to the City's tree canopy inventory. Significant progress was made at Colby Park, a trail resurfacing grant was received and some initial property for an eventual park on the east side of town was received via Parkland dedication from The Windsor.

Objective A: Invest in art and culture opportunities unique to the region in cooperation with Bravo.

Objective B: Continue to invest in community events with community partners, including the Chamber of Commerce and provide funding to the Windsor Heights Foundation.

Objective C: Invest in community artwork.

Objective D: Continue implementation of the Colby Park plan; make decisions regarding what to do with Lions Park; pursue new trails and bike hub facility; and initiate discussion for establishing a new northeast park amenity.

Objective E: Consider policies and programs to expand and diversify the tree canopy of Windsor Heights both on public and private property.

Goal #6 – Pursue a **comprehensive economic development strategy** that supports a healthy business sector and contributes to a better overall quality of life.

Staff remains engaged with Colby Interests and other parties on several potential commercial projects and the acquisition of property for future mixed-use redevelopment is currently under consideration. Four commercial projects were approved for construction in 2024.

Objective A: Explore partnership opportunities with the Chamber to attract and retain businesses aligned with feedback from the community survey.

Objective B: Build on the existing partnership with local development partners.

Objective C: Establish a source of funding in support of property redevelopment and rehabilitation. Specifically focus resources in support of minority-owned business grants.

Goal #7 – Plan and invest in City infrastructure to ensure the long-term viability of the community's roadways, utilities, parks, IT infrastructure and public facilities.

The Space Use Analysis draft is approaching completion. DART bus shelters have been installed on University Avenue, and 74th Street improvements include work related to Project 1 of the Walnut Creek stabilization study. Community sidewalk enhancements are ongoing, with improvements on 68th Street and the first phase of sidewalk repairs scheduled for spring 2025. Solar panels were installed on the CEC in 2024. Updated PCI scores are expected early next year, which will inform discussions about a potential pavement management study. Public Works has integrated infrastructure information into the City's GIS software and has significantly expanded its maintenance program for roads and storm sewer.

Objective A: Continue to update the Capital Improvement Plan for streets, sewers, parks, storm sewers, city facility improvements, sidewalks/trailways, flood mitigation and other large-scale investments.

Objective B: Expand existing community recreation options and pursue partnerships with the schools and other community organizations.

Objective C: Complete a long-term public facilities plan.

Objective D: Implement a plan to address Walnut Creek bank stabilization.

Objective E: Focus capital resources on improving safety and availability of pedestrian facilities.

Objective F: Research and identify green technologies that could be made available to residents and businesses as a way of addressing environmental concerns.

Goal #8 – Pursue initiatives aimed at growing Windsor Heights as a diverse and inclusive community.

Construction of the 100+ unit workforce housing project The Windsor will add a substantial number of affordable housing in the community. The City's consideration of acquisition of potential properties for redevelopment also presents the opportunity to provide temporary housing for those in need. The City hosted the Iowa Cultural Parade Foundation's inaugural Diwali Parade.

Objective A: Identify new and emerging housing sector needs and develop strategies to pursue.

[Type text]

Objective B: Continue to plan and hold new multi-cultural special events with community partners.

Objective C: Maintain City's commitment to unbiased policing and equal treatment of all residents regardless of age, race, sexual orientation, or physical disability.

Objective D: Pursue grant opportunities to encourage the growth of minority-owned businesses.

Goal #9 – Continually strive to better **communicate with Windsor Heights residents** to achieve the most transparent government and understand citizen viewpoints.

Despite time constraints, Adam S. continues to produce an excellent newsletter. Department heads collaborate to maintain the City's website, including the projects page, which has been updated weekly for most of the year. A living document is in place to identify areas of the website for periodic review. Additionally, staff are frequently present at community events, providing opportunities to address questions or concerns. This year also saw updates to the City's section in Catch Des Moines. The City will have tables at the Des Moines Wedding Shows to showcase the CEC.

Objective A: Continue to communicate with residents through newsletters and look at other opportunities to communicate that will best serve the community.

Objective B: Maximize the use of social media to offer multiple methods of disseminating information to the public.

Objective C: Utilize marketing initiatives to show Windsor Heights is a destination for visitors in the Des Moines Metro.

Objective D: Continuously improve the City's website and data management processes to ensure relevant information is accessible to staff, elected officials and the public.

Objective E: Highlight programs in the metro area that can benefit Windsor Heights' residents; Metro Home Program, Storm Water Best Management Reimbursement Program, Neighborhood Finance Corporation, etc.



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM:

SUBJECT: Mayor, Council Reports and Committee Updates, and Administration Reports

GENERAL INFORMATION

ATTACHMENTS

None



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL
FROM: Mike Jones, Mayor

SUBJECT: Mayor's Report

GENERAL INFORMATION

ATTACHMENTS

1. Mayor's Report 12-12-2024



MAYOR'S REPORT

Report Covers November 13th, 2024 – December 12th, 2024

- On November 13th I attended the Mid-Iowa Association of Local Government (MIALG/Mayor's Meeting) in Ankeny, where we had a roundtable with a number of legislators. There were primarily Democratic legislators in attendance, including Senator Clarie Celsi from our district, while the sole Republican was Representative Brian Lohse of District 45. There was consensus amongst municipal elected officials that we would like there to be no further action on property taxes, that we would like to see how the most recent property tax law (commonly known as HF 718) impacts our cities over the next 3-5 years and we would like to try to educate those at the Capitol about where majority of every city budget primarily goes: public safety,
- The City of Johnston asked for reconsideration of Carbon Reduction Plan funding awards from the Des Moines Metropolitan Planning Organization (MPO) Funding Subcommittee, after the original recommendation was that they be awarded no funds. The original recommendation was made based upon some skepticism about whether or not they would be able to complete it, as it's a \$30,000,000 project. As lesser concern, I have philosophical apprehension about awarding Carbon Reduction funds to a project that builds out significant infrastructure that may lead to single family housing. At the meeting Johnson provided more information about funding, future opportunities and Mayor Dierenfeld in short, said that the project would get funded. With that, the Funding Subcommittee recommended that Johnston receive \$1.3 million of their \$1.5 million ask.
- Polk County Emergency Management met on November 20th. The most important topic was the [Countywide Hazard Mitigation Plan \(2024 Edition\)](#). I noted that there was a great deal of information related to Windsor Heights that was outdated. I noted this prior to the meeting and took it up with AJ (our AJ), who in turn contacted EMA and will work with them to get it amended/corrected.
- The [MPO Policy Committee met on November 21st](#). I had to attend via Zoom due to family circumstances. Primary topics were the passage of the Carbon Reduction Funding recommendations and whether a contract of a previous long-term employee should be renewed/renegotiated. This employee had been an MPO full time employee but had moved to Kansas City and was under contract the last calendar year. The question was whether or not to extend his contract for another year, which was not the recommendation of the Personnel Committee (which I sit on) and would also essentially be excusing him from the rules that MPO employees have to follow related to working in person or to extend it for six months and have him train current employees to do the work that he does. It was a contested vote, favoring the latter.

- The elected officials of the Economic Development Committee met to discuss the purchase of real estate on November 27th. This will be brought to Council in closed session.
- Obviously, détente was reached with the City of Des Moines and the suburbs, including ours, regarding DART. Thanks to Councilors Jones and Campbell as well as Mayor Trimble for their dedicated work and taking a firm but necessary approach to make sure mass transit survives in our Metro. I look forward to seeing how Reimagine DART plays out in the future.
- After what I'm sure were far too many texts and emails to AJ, I'm glad that the lighting on the monument signage on 73rd Street in front of the Donald Steele Bridge was finally fixed!
- On December 7th, I volunteered and had an opportunity to attend Windsor Wonderland with Councilors Harms, Campbell, Jones and Libbie. Wonderful work by Councilor Harms and the rest of the Community Events Committee. It was an incredible turnout and wouldn't have been possible without the work of staff, volunteers and sponsors. I think each year is a learning opportunity and I look forward to a postgame meeting to discuss next year's edition and the future of special events in the community. I would have taken a photo or two but I was running around like a chicken with its head cut off.
- On December 9th I attending the UpLift Funder Group meeting. We got a legislative update, being that hopefully there will no further attacks on basic income (or impoverished people in general) and also got some numbers on response rates related to the basic income project surveys: 78% overall survey response rate. 90% response rate from the intervention group (the group actually receiving payments). Control group 69% (the people not receiving payments). Grinnell, the City, is moving forward with a basic income study. 15 participants. UPenn will be their research team. CFR is the disbursement vendor. Community Foundation of Poweshiek County, is believed to be who is funding the actual project. The final findings of the basic income project are set to be release in June of 2026.
- On December 10th I attended a tour of the Metro Waste Authority (MWA) Recycling Facility along with a number of legislators and AJ. Councilor Harms, as part of her day job, was responsible for putting it together and did a wonderful job, along with MWA Staff. I am frankly, shocked by what people attempt to recycle and we should continue to try to educate everyone about what can and can't go in green/brown bins.
- I attended the MPO Executive Committee meeting on December 11th where we heard a presentation on the audit, which improved significantly from years past and also had initial conversations about how Safe Streets for All Funding would be made available. I believe 73rd Street South was identified as a potential corridor that would benefit from funding.
- MIALG met on the night of December 11th where I was named Chair for 2025.



STAFF REPORT
CITY COUNCIL
December 16, 2024

TO: CITY COUNCIL

FROM: Pete Roth

SUBJECT: Quarterly Police Department Report

GENERAL INFORMATION

ATTACHMENTS

1. Sep, Oct, Nov 2024 Quarterly Report

WINDSOR HEIGHTS POLICE DEPARTMENT

September - November 2024
Council Report

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Updates.....	2
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Work Anniversaries

- Eric Stein (11/13 - 1 yr.)



(L-R) Lt. Irlbeck, Officer Pleiness, and Detective Johnson provide traffic control for the Fall Festival Parade in October.

2024 Fall Festival

Officers along with City Staff worked the 2024 Windsor Heights Fall Festival in October. The festivities began with the season's last Movie in the Park on Friday, October 4. On Saturday morning, events kicked off early beginning with the WHFD Pancake Breakfast and WHAMM. Officers assisted with the annual parade as well as in Colby Park for a large turnout. Thank you to all the event organizers, volunteers, sponsors, and the beautiful weather!



Officer Pleiness leads the Diwali Parade.



Officer Brown working the Movie in the Park Event during Fall Fest.

Diwali Parade

On Saturday, October 26, 2024, officers assisted with the Diwali Celebration Parade. The route began at 66th and University and ended at Colby Park. This is the first time this event was held in Windsor Heights.

Department Updates

- ⇒ The department has been working on updating policy and procedures through Lexipol, a nationally recognized leader in public safety and risk management.
- ⇒ The department is also excited to begin working on becoming accredited through the newly formed Iowa Law Enforcement Accreditation Program (ILEAP). The program aims to: establish and maintain standards, increase effectiveness and efficiency, and reduce liability. Over 20 Iowa law enforcement agencies are beginning this process.
- ⇒ Alcohol compliance checks were conducted on October 22. Five out of eleven businesses were found not in compliance.
- ⇒ Lt. Irlbeck assisted the US Capital Police for an event held by Lanon Baccam's office during the recent campaign season.
- ⇒ Police Administration worked on updating the department's 2025 fee schedule. It was submitted to the City for Council review at a future meeting.
- ⇒ On September 11, officers attended the First Responders Appreciation Celebration at the Clive Elks Lodge. Thank you to the Lodge for hosting the event.
- ⇒ Lt. Irlbeck continues to work with Iowa Solutions to update the digital systems in the City. They have been a welcome resource and have provided much needed assistance to City Staff!
- ⇒ The Triennial Iowa DPS audit was completed and the department was found to be in full compliance. This audit is conducted to ensure agencies with access to confidential personal and criminal data are adhering to federal and state laws governing its use.

Police Department received \$4,000.00 in grants!



Special thanks to Casey's General Store and Sam's Club for their generous support!

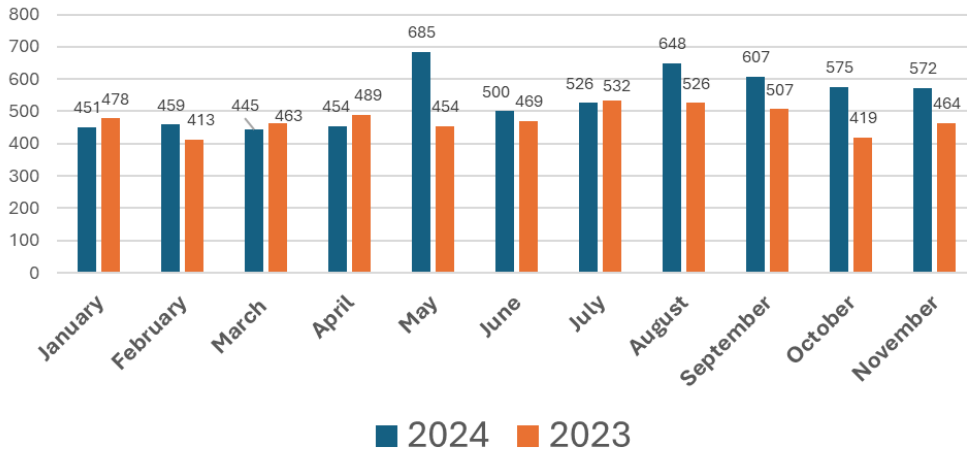
On October 16, Casey's awarded the department \$2,000.00. Most of the funds will be used to purchase high visibility traffic safety vests for all officers. This will allow members to remain safe and visible to the motoring public when working crashes and events on our roadways.

On December 2, Sam's Club also awarded the PD \$2,000.00. The department plans on applying these funds to community engagement and outreach items.

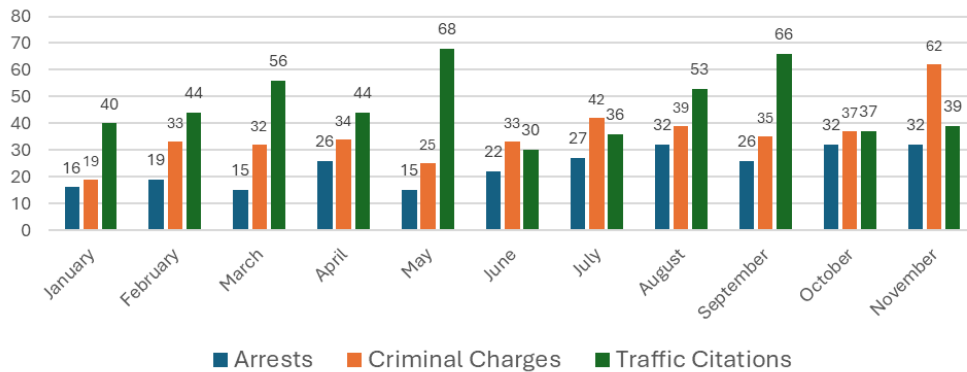
Thank you to Lt. Irlbeck for applying for these grants.

The department continues to research other grant options from government agencies and private organizations.

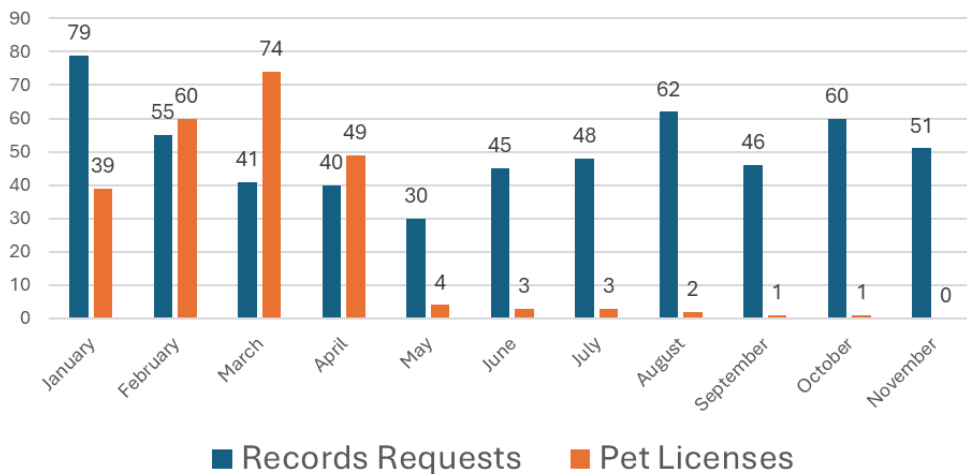
Calls For Service



2024 Totals



Records Requests and Pet Licenses 2024



At-a-Glance: Monthly Statistics

September 2024

Calls for Service: 607

Incident Reports: 72

Supplemental Reports: 35

Traffic Warnings: 49

Crash Reports: 23

OWI Charges: 1

October 2024

Calls for Service: 575

Incident Reports: 81

Supplemental Reports: 34

Traffic Warnings: 19

Crash Reports: 24

OWI Charges: 0

November 2024

Calls for Service: 572

Incident Reports: 80

Supplemental Reports: 34

Traffic Warnings: 35

Crash Reports: 24

OWI Charges: 3

Training Schedule

September—November 2024

Defensive Tactics and Officer Safety Protocol

Crime Scene Investigation

Domestic Violence

Bias Prevention and Diverse Communities

Less Lethal Solutions

Autism

Iowa Caselaw Update



In November, Detective Johnson (pictured) and Lt. Irlbeck attended a Dignitary Protection Training in Des Moines.

Training Highlights

On September 12, Detective Johnson attended the Iowa Chapter of Children's Advocacy Centers Multidisciplinary Team Conference at the Unity Point Health Education and Resource Center in Des Moines.

On September 20, Officers Roetman, Davison, and Brown completed a 40-hour Basic Crime Scene Investigation School sponsored by the Iowa Division of the International Association of Identification. They learned in-depth processes for advanced photography, casts, latent fingerprinting, and DNA technological items utilized in crime scenes.

Lieutenants Norris and Irlbeck completed the FEMA ICS 400 - Advanced Incident Command System for Complex Incidents training on September 18-19 at Polk County Emergency Management.

ASC Breese completed training on September 17 with the Iowa Department of Public Safety (DPS) regarding iCrime, the reporting mechanism used to submit crime data to the State of Iowa.

Chief Roth attended the Professional Development and Recruitment Conference for Small Agencies at the DMACC Ankeny campus on September 23-25.

The department completed Defensive Tactics training on September 24. Detective Kyle Johnson and Officer Daniel Jacks are Iowa Law Enforcement Academy (ILEA)-certified instructors and provided excellent teaching. Also covered in the training was de-escalation methods, proper handcuffing, search techniques, case law updates, and officer safety protocols.

On October 14 and 15, Lt. Irlbeck and Det. Johnson attended Iowa's First Annual Domestic Violence Conference. This brought in over 250 attendees and was sponsored by the Iowa Attorney General's Office. The Governor and Attorney General both spoke at the opening of the conference.

On October 16, Chief Roth participated in a live webinar on Preventing Targeted Violence. The webinar was presented by the United States Secret Service.

On October 23, Detective Johnson attended Chemical Spray Instructor School at the ILEA. On October 24, he completed a Department of Justice online seven-hour course on Digital Forensic Analysis of devices such as phones and computers.

Lt. Irlbeck and Det. Johnson attended a conference for the Iowa Law Enforcement Intelligence Network (LEIN) sponsored by the Iowa DPS on October 28-30, in West Des Moines. The event highlighted several high-profile cases and provided training in various investigations and techniques.

Lt. Irlbeck and Detective Johnson attended a three-day training course at the Des Moines Police Academy on Executive and Dignitary Protection. A 33-year NYPD veteran and a 20-plus-year veteran of the Omaha Police Department instructed the session.

Officer Brown attended a less-lethal instructor school on November 13 at ILEA.

Officers completed training on Autism in October.