



AGENDA
REGULAR MEETING OF THE
WINDSOR HEIGHTS CITY COUNCIL
Monday, February 20, 2023 - 6:00 PM
WINDSOR HEIGHTS COUNCIL CHAMBERS - 1133 66th St or VIA
ZOOM by registering in advance for this meeting:
<https://us02web.zoom.us/j/7832856334>
After registering, you will receive a confirmation email containing information about
joining the meeting.

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. **Presentation of Bravo Greater Des Moines FY23-25 Strategic Plan - Bravo Greater Des Moines Executive Director Sally Dix**
 - A. Bravo Greater Des Moines FY23-25 Strategic Plan
4. **Public Hearing:**
 - A. Public Hearing on Proposed Contract Documents (plans, specifications and form of contract) and Estimated Cost for the 68th Street Reconstruction Improvements
 - B. Consideration of Bids - 68th Street Reconstruction Improvements Project
5. **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.
6. **Consent Agenda:** Any item on the Consent Agenda may be removed for separate consideration.
 - A. Approve Minutes of the Regular Council Meeting on February 6, 2023
 - B. Approve Payment of Claims
 - C. Approve Financial Reports
 - D. Approve Liquor License Renewal - The Ridgemont - 7400-7460 Hickman Road
 - E. Approve Liquor License Renewal - Puerto Rico Restaurant - 6611 University Avenue
 - F. Approve Re-appointment of John Villotti to the Board of Adjustment

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.

- G. Approve Reappointment of David Ferree and Joe McConville to the Planning and Zoning Commission
 - H. Approve Resolution No. 2023-12 - A Resolution to Set a Public Hearing on FY 2024-2034 CIP
7. **New Business:**
- A. Consideration of Interim Police Chief Contract
 - B. Consideration of Snow Plow Truck Purchases
 - C. Consideration of Resolution No. 2023-13 - A Resolution Authorizing the Execution of an Agreement between the City of Windsor Heights and the City of West Des Moines for Street Sweeping Services
 - D. Discuss Spring Cleanup Day and City Wide Garage Sales
 - E. Review FY 23-24 Budget
8. **Reports:**
- A. Mayor, Council Reports and Committee Updates, and Administration Reports
 - i Mayor's Report
 - ii January Fire Department Report
9. **Adjourn**

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.



Ballet Des Moines



Greater Des Moines Music Coalition
Photo: Hannah Wright



Mainframe Studios



Des Moines Playhouse



BRAVO STRATEGIC PLAN FY23–FY25

For nearly two decades, Bravo Greater Des Moines has been a critical partner in strengthening the role of arts, culture, and heritage in central Iowa. Through strategic leadership and bold investments of hotel/motel taxes allocated by 17 local government partners, Bravo has contributed to robust growth in cultural organizations, public art, and creative programming that drive Greater Des Moines' reputation as a thriving, vibrant region.

For this momentum to continue – for Bravo and the community - there is an urgent need to continue strengthening a resilient and connected cultural sector. Beyond economic impact and quality of life, arts and culture must be seen as essential to achieving all regional priorities.

Bravo already plays a leadership role in this work and this plan firmly commits to Bravo's evolution into a true regional arts council. Bravo will maintain a primary focus on non-profit organizations and grantmaking will remain Bravo's core and primary function. But for Bravo to remain nimble, responsive, and relevant to the future vitality of arts, culture and heritage in Greater Des Moines, Bravo will intentionally focus on a broader scope of services. While Bravo will remain committed to only undertaking work it is uniquely positioned to execute with excellence, the organization is well-positioned to become much more than a grant maker evolving towards also being recognized as a convener, connector, and cultivator.

Authentically embedding diversity, equity, inclusion and access into each decision and action will be prioritized. Bravo also recognizes that civic, cultural and community partners are essential allies in this work. Continued collaboration and clear communication will be required to increase collective impact.



Mainframe Studios

ABOUT BRAVO

MISSION

Bravo Greater Des Moines leverages community resources to maximize impact of arts, culture, and heritage to advance regional priorities.

VISION

Arts, culture, and heritage elevate and enrich a vibrant Greater Des Moines.

CORE VALUES

Collaborative

Bravo collaborates with all community partners to define and achieve long-term success for arts, culture, and heritage.

Inclusive

Bravo values diversity, and we promote a culture of equity and inclusion.

Accountable

Bravo acts with integrity and transparency, allocating resources responsibly and as good stewards of public funds.

Regional

Bravo is engaged where we can have the most impact on regional priorities.

Opportunistic

Bravo consistently delivers on core functions while remaining nimble enough to respond strategically to regional priorities.

Passionate

Bravo stakeholders are passionate about arts, culture, and heritage and the benefits Bravo brings to Greater Des Moines.

/ SUPPORT /

INVEST STRATEGICALLY IN ORGANIZATIONS, PROGRAMS, AND PROJECTS THAT ADVANCE REGIONAL CULTURAL PRIORITIES.

Grantmaking and funding to arts, culture, and heritage organizations will remain fundamental to how Bravo serves the community. However, more complete definition around investment priorities and more thoughtful communication about the public value of Bravo's investments on behalf of our local government partners are required. Expanded funding opportunities for non-profits beyond those that are arts, culture and heritage-centric will also be added to support a wider range of organizations that add breadth and depth to the cultural landscape.

OBJECTIVE: Strategically distribute funds through grant programs that meet the diverse needs of arts, culture and heritage organizations across the region.

- Regularly review and modify existing programs to maintain relevancy and effectiveness.
- Ensure community investment strategies and practices are accessible, diverse, equitable and inclusive.
- Define internal and external KPIs for investments and improve data collection to ensure information is available and relevant.
- Prioritize culture and heritage investments along with arts.

OBJECTIVE: Expand pathways to support organizations outside the cultural sector that are uniquely advancing regional cultural priorities.

- Develop and deploy pilot investment programs that invite and encourage new partners to apply for support.
- Evaluate impact of investments.

OBJECTIVE: Broaden awareness of Bravo's investments and impact.

- Collect quantitative and qualitative data from investment partners about impact of Bravo funding.
- Create and implement a communications plan that articulates to cultural, corporate, civic and community partners that Bravo funding is helping to build a sustainable and resilient regional cultural ecosystem.
- Focus messaging on what Bravo makes possible more than what Bravo does.



Downtown Events Group



Living History Farms



Greater Des Moines Botanical Garden

/ CONNECT /

FOSTER RELATIONSHIPS THAT BUILD CAPACITY AND INVITE COLLABORATION.

Collective thriving requires more than funding from Bravo; it demands the development and continued strengthening of trusted relationships. Bravo's credibility as a convener and facilitator is well-established and valued. Intentionally leveraging more opportunities to break down silos and build capacity will create greater connectivity and sustainability both within the arts, culture, and heritage sector and between it and the wider community. This will increase the sector's impact and provide richer experiences that reach broader audiences.

OBJECTIVE: **Facilitate capacity building for arts, culture and heritage organizations, leaders and community partners.**

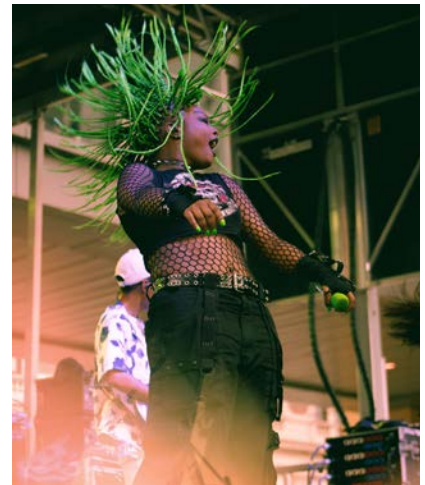
- Develop and deploy strategies to assess and understand professional and skill development needs within the sector.
- Make connections to existing training programs and community partners providing relevant capacity building opportunities.
- Work with cultural and community partners to create a portfolio of learning opportunities that will help support regional cultural goals.

OBJECTIVE: **Enhance connections and collaborations among organizations working in arts, culture and heritage.**

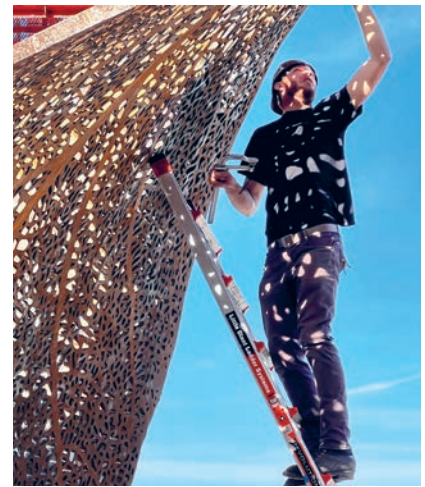
- Offer formal and informal opportunities to convene, build relationships and explore relevant topics.
- Provide assistance for organizations seeking to partner with others to create efficiencies, streamline operations, share resources and enhance effectiveness.
- Deepen relationships and partnerships with leaders and communities not currently seeing themselves or their cultures represented in Bravo's network.

OBJECTIVE: **Strengthen relationships between the cultural sector and the broader community.**

- Create opportunities for cultural organizations to showcase programs, offerings and impact in new and impactful ways.
- Develop strategic engagement initiatives to ensure that arts, culture and heritage are recognized by community stakeholders as essential drivers of regional priorities.



Greater Des Moines Music Coalition
Photo: Sam Golbuff



Greater Des Moines Public Art Foundation
Photo: Juanjo Novella



Ankeny Community Chorus

/ AMPLIFY /

BE A CENTRAL VOICE FOR ARTS, CULTURE, AND HERITAGE ACROSS THE REGION.

There is growing appreciation for the role of arts and culture to advance civic vitality, but this progress cannot be taken for granted. More intentional effort to reinforce the direct link between arts and economic and social impact is needed and a collective voice promoting the message is necessary. Bravo is already seen as an advocate and resource about the regional arts, culture and heritage landscape. Collecting and centralizing more information about the sector's assets and challenges will bring more opportunities to further integrate arts, culture, and heritage into regional decision-making.

OBJECTIVE: Champion the role of arts, culture and heritage in delivering broader economic, civic and social impact.

- Build and strengthen relationships within and outside the cultural sector.
- Seek out and participate in regional conversations, efforts and initiatives that can be strengthened by adding an arts, culture and heritage perspective.
- Create strategic opportunities for business, civic and community leaders to learn about and support the cultural sector.
- Develop clear and consistent advocacy messages that can be used by all takeholders.

OBJECTIVE: Lead advancement of regional cultural priorities.

- Collect and share data about sector impact and opportunities.
- Administer economic impact studies.
- Conduct audience development research.

OBJECTIVE: Centralize access to information about regional cultural assets and their significance.

- Redesign Bravo website to enhance relevancy to broader audience.
- Leverage Bravo Awards Gala and other public events to enhance understanding of not only Bravo but also the breadth and depth of the cultural sector.



Ballet Des Moines



State Historical Museum of Iowa



SEEDS

/ CULTIVATE /

SEED AND LEAD INITIATIVES THAT BUILD MOMENTUM FOR FUTURE SUCCESS.

Building the artists, audiences, and cultural advocates of tomorrow must begin today. Places and spaces to access artistic and cultural experiences must evolve rapidly to meet dynamic emerging needs. Culture and heritage must be elevated alongside the arts to ensure a rich cultural tapestry that welcomes future generations to call Greater Des Moines “home.” Bravo can thoughtfully catalyze experimentation in significant programs, projects, and partnerships that will encourage and sustain a resilient and competitive creative ecosystem for decades to come.

OBJECTIVE: Lead regional visioning on future needs that position arts, culture, and heritage to thrive.

- Bring attention to key cultural community assets, infrastructure, and issues.
- Determine gaps and opportunities and envision new possibilities to advance growth.
- Create pathways for the development of new arts and culture leaders.

OBJECTIVE: Identify and prioritize opportunities where Bravo can play a unique, collaborative and additive role in cultivating a resilient and competitive creative culture.

- Define success metrics.
- Take calculated risks to learn and evolve quickly.
- Expand definition of arts, culture and heritage beyond places you go.

OBJECTIVE: Establish arts, culture, and heritage as a priority driver of regional identity.

- Encourage creative placemaking strategies to drive community engagement and development to make Greater Des Moines more inclusive and economically vibrant.
- Empower community members to design and build structures and programs that reflect their rich heritage and communicate a sense of belonging.

OBJECTIVE: Build Bravo’s agility to identify and respond to emerging opportunities.

- Apply for local, regional and federal funding for projects Bravo is uniquely suited to implement.
- Manage only programs that benefit the region and cannot be led by any other partner.



Blank Park Zoo



City Voices



Des Moines Playhouse



STRATEGIC PLANNING PROCESS

Inspired by guidelines from Americans for the Arts, Bravo Greater Des Moines engaged in a considerable research effort in preparation for this strategic plan. These efforts included a review of eight peer organizations in other metro areas, ten focus groups with a wide variety of regional stakeholders, two online surveys with educators and community members, and interviews with organizational leaders across the metro region.

Some prominent themes in arts, culture, and heritage (AC&H) that emerged from these conversations included:

- Strong appreciation for and momentum in AC&H organizations and programs across Central Iowa.
- Leaders in the AC&H sector crave more connections, resources, and support within and beyond the sector.
- Demand for diversity, equity, inclusion, and accessibility throughout the community.
- Concern about the coordination for the development of future infrastructure for both artistic production and performance spaces.
- A need to focus on building a sustainable and resilient, regional cultural economy.

The strategic priorities of this FY23 – FY25 plan aim to attend to some of these needs as well as to seed and lead conversations about major regional initiatives to prepare for future needs. Sincere thanks again to everyone who provided important insights and input into the future of arts, culture, and heritage in Greater Des Moines.



GREATER DES MOINES

801 GRAND AVE. | SUITE 250 | DES MOINES, IOWA 50309

bravogreaterdesmoines.org



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL

FROM: Justin Ernst, City Engineer

SUBJECT: Public Hearing on Proposed Contract Documents (plans, specifications and form of contract) and Estimated Cost for the 68th Street Reconstruction Improvements

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

1. 127880_68TH STREET RECONSTRUCTION_REV 0_01-12-2023
2. 1127880 68th St PROJECT MANUAL Final
3. 127880_FINAL OPC_01-12-2023

CITY OF WINDSOR HEIGHTS, IOWA

CONSTRUCTION PLANS FOR

68TH STREET RECONSTRUCTION

WINDSOR HEIGHTS, IA

JANUARY 2023

GOVERNING SPECIFICATIONS

THE 2023 EDITION OF THE "IOWA STATEWIDE URBAN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS".

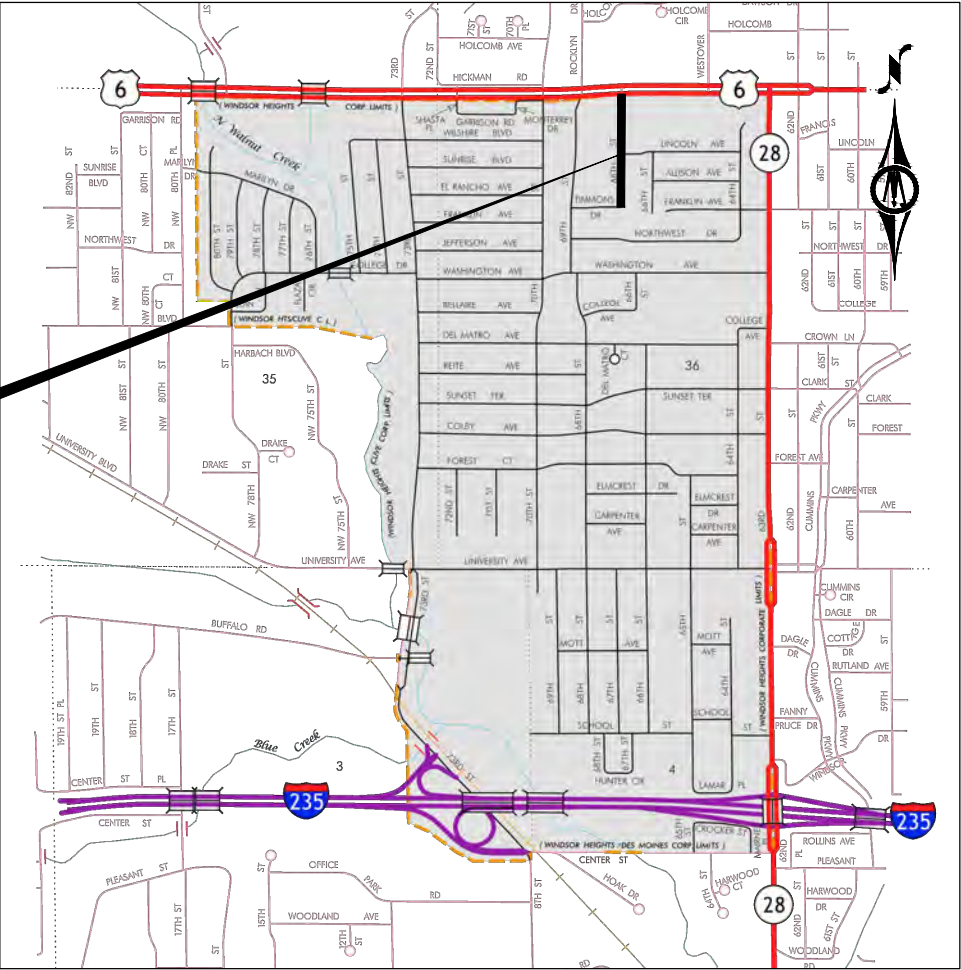
IOWA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION", VERSION OCTOBER 2015 AND ALL CURRENT GENERAL SUPPLEMENTAL SPECIFICATIONS AND MATERIALS INSTRUCTIONAL MEMORANDUM SHALL GOVERN AS REFERENCED.

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

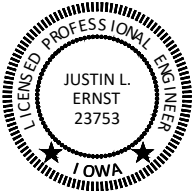


PROJECT LOCATION



MAP OF THE
CITY OF WINDSOR HEIGHTS
POLK COUNTY, IA

SHEET INDEX			
SHEET NUMBER	DESCRIPTION	REVISION	DATE ISSUED
A.01	TITLE SHEET	0	01-16-2023
A.02	LEGEND	0	01-16-2023
B.01	TYPICAL SECTIONS	0	01-16-2023
B.02	DETAILS	0	01-16-2023
C.01	GENERAL NOTES	0	01-16-2023
C.02	ESTIMATED QUANTITIES	0	01-16-2023
C.03	ESTIMATE REFERENCE NOTES	0	01-16-2023
C.04	ESTIMATE REFERENCE NOTES	0	01-16-2023
C.05	TABULATIONS	0	01-16-2023
D.01	68TH STREET PLAN & PROFILE	0	01-16-2023
D.02	68TH STREET PLAN & PROFILE	0	01-16-2023
D.03	68TH STREET PLAN & PROFILE	0	01-16-2023
E.01	SIDE ROADS PLAN & PROFILE	0	01-16-2023
F.01	EXISTING CONDITIONS & REMOVALS	0	01-16-2023
F.02	EXISTING CONDITIONS & REMOVALS	0	01-16-2023
G.01	REFERENCE TIES & BENCHMARKS	0	01-16-2023
J.01	STAGING PLAN	0	01-16-2023
J.02	STAGING PLAN	0	01-16-2023
J.03	TRAFFIC CONTROL PHASE 1	0	01-16-2023
J.04	TRAFFIC CONTROL PHASE 2	0	01-16-2023
L.01	INTERSECTION DETAILS	0	01-16-2023
L.02	INTERSECTION DETAILS	0	01-16-2023
L.03	JOINING PLAN	0	01-16-2023
L.04	JOINING PLAN	0	01-16-2023
L.05	JOINING PLAN	0	01-16-2023
M.01	STORM SEWER PLAN & PROFILE	0	01-16-2023
M.02	STORM SEWER PLAN & PROFILE	0	01-16-2023
M.03	STORM SEWER CROSS RUN PROFILES	0	01-16-2023
M.04	SANITARY SEWER PLAN	0	01-16-2023
M.05	SANITARY SEWER PLAN	0	01-16-2023
MWM.01	WATER MAIN GENERAL NOTES	0	01-16-2023
MWM.02	DES MOINES WATER WORKS DETAILS	0	01-16-2023
MWM.03	WATERMAIN PLAN & PROFILE	0	01-16-2023
MWM.04	WATERMAIN PLAN & PROFILE	0	01-16-2023
MWM.05	WATERMAIN PLAN & PROFILE	0	01-16-2023
R.01	EROSION CONTROL	0	01-16-2023
R.02	EROSION CONTROL	0	01-16-2023
S.01	SIDEWALK PLAN	0	01-16-2023
S.02	SIDEWALK PLAN	0	01-16-2023
S.03	SIDEWALK PLAN	0	01-16-2023
S.04	SIDEWALK PLAN	0	01-16-2023
S.05	SIDEWALK PLAN	0	01-16-2023
S.06	ADA COMPLIANCE	0	01-16-2023
W.01	CROSS SECTIONS	0	01-16-2023
W.02	CROSS SECTIONS	0	01-16-2023
W.03	CROSS SECTIONS	0	01-16-2023
W.04	CROSS SECTIONS	0	01-16-2023
W.05	CROSS SECTIONS	0	01-16-2023



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.

LIC. NO. 23753 DATE: 01-16-2023

MY LICENSE RENEWAL DATE IS Dec. 31, 2023

PAGES OR SHEETS COVERED BY THIS SEAL:

ALL SHEETS

CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET RECONSTRUCTION

TITLE SHEET

SHEET

A.01



430 E GRAND AVE, SUITE 101
DES MOINES, IOWA 50309
Phone: (515) 259-9190
Email: DesMoines@bolton-menk.com
www.bolton-menk.com



DESIGNED
WFK
SEALED
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CLIENT PROJ. NO.
0A1.127880

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EXISTING TOPOGRAPHIC SYMBOLS

	ACCESS GRATE		SIGN TRAFFIC
	AIR CONDITION UNIT		SIGNAL CONTROL CABINET
	ANTENNA		SOIL BORING
	AUTO SPRINKLER CONNECTION		SIREN
	BARRICADE PERMANENT		TELEPHONE BOOTH
	BASKETBALL POST		TILE INLET
	BENCH		TILE OUTLET
	BIRD FEEDER		TILE RISER
	BUSH-DECIDUOUS		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		VENT PIPE
	GRILL		WATER SPIGOT
	GUY WIRE ANCHOR		WELL
	HANDHOLE		WETLAND DELINEATED MARKER
	HANDICAP SPACE		WETLAND
	IRRIGATION SPRINKLER HEAD		YARD LIGHT
	IRRIGATION VALVE BOX		WET WELL
	LIFT STATION CONTROL PANEL		YARD HYDRANT
	LIFT STATION		
	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-LIGHT		
	POLE-UTILITY		
	POST		
	RAILROAD SIGNAL POLE		
	REGULATION STATION GAS		
	SATELLITE DISH		

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

SURVEY SYMBOLS

	BENCH MARK LOCATION
	CONTROL POINT
	MONUMENT IRON FOUND
	CAST IRON MONUMENT

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

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

GRADING INFORMATION

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

HATCH PATTERNS

	PCC PAVEMENT		PCC SIDEWALK		HMA PAVEMENT
	PCC DRIVEWAY		GRAVEL		

EXISTING PRIVATE UTILITY LINES

NOTE:
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	FO		FO		FO		FO		UNDERGROUND FIBER OPTIC
	E		E		E		E		UNDERGROUND ELECTRIC
	G		G		G		G		UNDERGROUND GAS
	C		C		C		C		UNDERGROUND COMMUNICATION
	OE		OE		OE		OE		OVERHEAD ELECTRIC
	OC		OC		OC		OC		OVERHEAD COMMUNICATION
	OU		OU		OU		OU		OVERHEAD UTILITY

SECTION AND DETAIL IDENTIFICATION

SECTION IDENTIFICATION		DETAIL IDENTIFICATION	
SECTION CALL OUT AS SHOWN ON SHEETS:		DETAIL CALL OUT AS SHOWN ON SHEETS:	
SECTION NUMBER		DRAWING ON WHICH SECTION APPEARS *	
		DETAIL NUMBER	
			DRAWING ON WHICH DETAIL IS SHOWN *
* NOTE: IF PLAN AND SECTION (OR DETAIL CALL-OUT AND DETAIL) ARE SHOWN ON THE SAME DRAWING, DRAWING NUMBER IS REPLACED BY A LINE.			

ABBREVIATIONS

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

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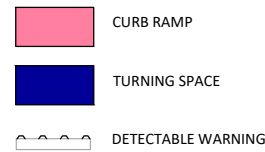
CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET RECONSTRUCTION

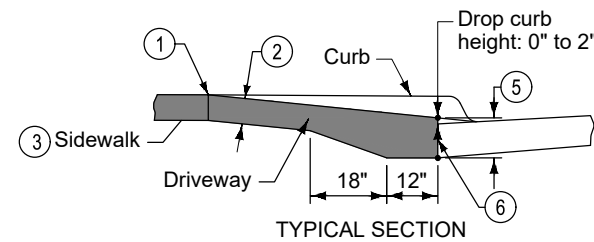
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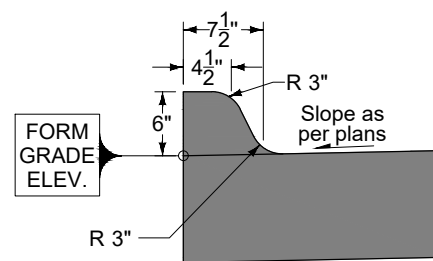


2 TYPICAL SIDEWALK CURB DETAIL
ALL SHEETS NOT TO SCALE



- ① Transition the curb height to 0 inches at end of taper/radius or at the front edge of sidewalk. Do not extend raised curb across sidewalk.
- ② Pavement thickness.
Residential: 6 inches minimum.
- ④ Sidewalk thickness through driveway to match thickness of driveway.
- ⑤ Match thickness of adjacent roadway, 8 inches minimum.
- ⑥ Provide 'B' joint at back of curb.
- 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 All 'E' joints shall be sealed.

3 PCC DRIVEWAY, TYPE A
ALL SHEETS NOT TO SCALE



4 6" STANDARD CURB
ALL SHEETS NOT TO SCALE

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DETAILS

02

STANDARD CONSTRUCTION NOTES:

1.

ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE 2023 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.

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.
3.

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.
4.

THE CONTRACTOR SHALL PROCURE ALL NECESSARY PERMITS AND LICENSES IN ACCORDANCE WITH SUDAS SECTION 1070.
5.

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.
6.

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.
7.

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.
8.

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.
9.

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.
10.

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.
11.

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.
12.

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.
13.

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.
14.

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.

PROJECT NOTES:

1.

THE CONTRACTOR SHALL PROPERLY SECURE THE PROJECT SITE AT THE END OF EACH DAY.
2.

OPERATIONS BY THE CONTRACTOR CREATING OBJECTIONABLE LEVELS OF NOISE SHALL BE AVOIDED DURING WORKING HOURS (7 AM - 7 PM MONDAY-FRIDAY).
3.

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.
4.

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.

TRAFFIC CONTROL NOTES:

1.

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.
2.

ALL TRAFFIC CONTROL PLANS MUST BE REVIEWED AND APPROVED BY THE ENGINEER. COORDINATE WITH THE ENGINEER PRIOR TO PLACEMENT OF TRAFFIC CONTROL DEVICES AND SIGNS FOR EACH STAGE OF THE PROJECT.
3.

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
4.

THE PROPOSED SIGNAGE MAY BE MODIFIED TO MEET FIELD CONDITIONS, PREVENT OBSTRUCTIONS, AND TO ACCOMMODATE CONSTRUCTION SCHEDULING UPON APPROVAL OF THE PROJECT ENGINEER
5.

SIGNAGE MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.
6.

ALL CONSTRUCTION SIGNS SHALL BE DIAMOND GRADE FLUORESCENT ORANGE OR WHITE V.I.P. SHEETING OR EQUIVALENT. (IOWA DOT TYPE VII SHEETING).
7.

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.
8.

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

UTILITY COORDINATION NOTES:

1.

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.
2.

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.
3.

IF A CONFLICT IS DISCOVERED BY THE CONTRACTOR, NOTIFY THE ENGINEER IMMEDIATELY AND COORDINATE WITH OWNER OF UTILITY TO RESOLVE CONFLICT.
4.

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)

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ASHLIE.CLEMENTS@LUMEN.COM

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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET RECONSTRUCTION
GENERAL NOTES

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ESTIMATED PROJECT QUANTITIES - BASE BID						
ITEM NO.	ITEM CODE	ITEM	UNIT	DIV 1	DIV 2	AS BUILT QUANT.
1	2010-C	CLEARING AND GRUBBING	LS	1	0	
2	2010-D-1	TOPSOIL, ON-SITE	CY	360	0	
3	2010-E	EXCAVATION, CLASS 10	CY	1145	0	
4	2010-F	BELOW GRADE EXCAVATION (CORE OUT)	CY	230	0	
5	2010-G	SUBGRADE PREPARATION	SY	5490	0	
6	2010-I	SUBGRADE TREATMENT, 15% POZZOSTONE	SY	450	0	
7	2010-J	SUBBASE, MODIFIED, 8"	SY	5490	0	
8	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	200	0	
9	4010-E	SANITARY SEWER SERVICE STUB, PVC, 4"	EA	1	0	
10	4020-A-1	STORM SEWER, TRENCHED, RCP, 15"	LF	630	0	
11	4020-A-1	STORM SEWER, TRENCHED, RCP, 18"	LF	84	0	
12	4020-A-1	STORM SEWER, TRENCHED, RCP, 24"	LF	99	0	
13	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36"	LF	132	0	
14	4040-A	SUBDRAIN, HDPE, 6"	LF	2400	0	
15	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, 6"	EA	11	0	
16	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6"	EA	10	0	
17	4040-X	CONNECT TO SUBDRAIN PIPE	EA	1	0	
18	5010-A-1	WATER MAIN, TRENCHED, C900 DR18 PVC, STAB JOINT, 8", WITH TRACER WIRE	LF	0	1310	
19	5010-A-2	WATER MAIN, TRENCHED, C900 DR18 PVC, RESTRAINED JOINT, 8", WITH TRACER WIRE	LF	0	170	
20	5010-C-2	FITTING, 8"	LB	0	1150	
21	5010-D	WATER SERVICE TRANSFER, COPPER, 1" (SAME SIDE)	EA	0	13	
22	5010-D	WATER SERVICE TRANSFER, COPPER, 1" (OPPOSITE SIDE)	EA	0	13	
23	5010-E-3	WATER SERVICE CURB STOP AND BOX, 1"	EA	0	26	
24	5010-H	WATER MAIN REMOVAL, 6"	LF	0	150	
25	5020-A	VALVE, GATE, DUCTILE IRON (DI), 8-IN	EA	0	5	
26	5020-C	FIRE HYDRANT ASSEMBLY	EA	0	3	
27	5020-E	FLUSHING DEVICE (BLOW OFF)	EA	0	2	
28	5020-J	FIRE HYDRANT ASSEMBLY REMOVAL	EA	0	3	
29	5020-L	VALVE BOX REMOVAL	EA	0	4	
30	5020-X-1	TAP FEE, 1", REPLACEMENT TAP FOR WATER SERVICE TRANSFER	EA	0	24	
31	5020-X-2	PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE	EA	0	3	
32	5020-X-3	FOUNDATION ROCK	TON	0	50	
33	6010-A	STORM MANHOLE, SW-401, 48"	EA	1	0	
34	6010-B	INTAKE, SW-503	EA	1	0	
35	6010-B	INTAKE, SW-505	EA	6	0	
36	6010-B	INTAKE, SW-508	EA	1	0	
37	6010-B	INTAKE, SW-510, MODIFIED	EA	1	0	
38	6010-E	MANHOLE ADJUSTMENT, MINOR	EA	3	0	
39	6010-F	MANHOLE ADJUSTMENT, MAJOR	EA	2	0	
40	6010-H	REMOVE MANHOLE	EA	1	0	
41	6010-H	REMOVE INTAKE	EA	5	0	
42	7010-A	PAVEMENT, PCC, 7"	SY	4290	0	
43	7030-A	REMOVAL OF DRIVEWAY	SY	725	0	
44	7030-E	SIDEWALK, PCC, 4"	SY	540	0	
45	7030-E	SIDEWALK, PCC, 6"	SY	25	0	
46	7030-G	DETECTABLE WARNING	SF	20	0	
47	7030-H-1	DRIVEWAY, PAVED, PCC, 6"	SY	885	0	
48	7030-H-2	DRIVEWAY, GRANULAR	TON	250	0	
49	7040-H	PAVEMENT REMOVAL	SY	3980	0	
50	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1	0	
51	8040-D	PERFORATED SQUARE STEEL TUBE POSTS	EA	12	0	
52	9010-D	WATERING	LS	1	0	
53	9020-A	SOD	SQ	205	0	
54	9040-A-1	SWPPP PREPARATION	LS	1	0	
55	9040-A-2	SWPPP MANAGEMENT	LS	1	0	
56	9040-D-1	FILTER SOCK, 8"	LF	2400	0	
57	9040-O-1	STABILIZED CONSTRUCTION ENTRANCE	SY	100	0	
58	9040-Q-2	EROSION CONTROL MULCHING, HYDRO MULCHING	AC	0.45	0	
59	9040-T-1	INLET PROTECTION DEVICE, MAINTENANCE, AND REMOVAL	EA	15	0	
60	9070-A	MODULAR BLOCK RETAINING WALL	SF	200	0	
61	11020-A	MOBILIZATION	LS	1	0	
62	11030-A	MAINTENANCE OF POSTAL SERVICE	LS	1	0	
63	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	0	

64	11040-A	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS	LS	1	0	
65	11050-A	CONCRETE WASHOUT	LS	1	0	
66	12040-X-X	CURBSIDE MAILBOX	EA	23	0	
67						

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68TH STREET RECONSTRUCTION	
ESTIMATED QUANTITIES	

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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 CLEARING AND GRUBBING TO COMPLETE CONSTRUCTION. PROTECT ALL TREES NOT MARKED FOR REMOVAL.
2	2010-D-1	<u>TOPSOIL, ON-SITE</u> TOPSOIL WITHIN THE GRADING LIMITS OF THE PROJECT SHALL BE STRIPPED, SALVAGED, AND RESPREAD AT A MINIMUM DEPTH OF 6".
3	2010-E	<u>EXCAVATION, CLASS 10</u> ALL EXCESS MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND HAULED OFFSITE. TOPSOIL SHALL BE PLACED AND SPREAD TO A MINIMUM THICKNESS OF 6" IN ALL DISTURBED TURF AREAS. STRIPPING AND STOCKPILING OF EXISTING TOPSOIL SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
4	2010-F	<u>BELOW GRADE EXCAVATION (CORE OUT)</u> TO BE USED AS APPROVED 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. MOISTURE AND DENSITY TESTING WILL BE PROVIDED BY THE OWNER. CHECKING OF SUBGRADE WILL BE PREFORMED WITH ROUGH GRADING STAKES SET 25' APART.
6	2010-I	<u>SUBGRADE TREATMENT, 15% POZZOSTONE</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 SHALL MEET OR EXCEED THE REQUIREMENTS FOR TYPE 2 GEOGRID. MATERIAL TO HAVE NOT CHUNKS LARGER THA 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"</u> THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, FURNISHING, PLACING, COMPACTING, AND TRIMMING TO THE PROPER GRADE. ENGINEER WILL VERIFY GRADE AFTER TRIMMING WITH PAVING HUBS.
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	4010-E	<u>SANITARY SEWER SERVICE STUB, PVC, 4"</u> REMOVAL OF EXISTING PIPE, TRENCH EXCAVATION, FURNISHING NEW PIPE AND BEDDING MATERIAL, PLACING BEDDING AND BACKFILL MATERIAL, CONNECTION BACK TO EXISTING SERVICE, COMPACTION, TESTING, AND INSPECTION. INFORM RESIDENT 48 HOURS PRIOR TO WORK ON THAT SERVICE. VISUAL INSPECTION BY ENGINEER IS REQUIRED. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
10	4020-A-1	<u>STORM SEWER, TRENCHED, RCP, 15"</u> INCLUDES FLEXIBLE GASKET JOINTS AT WATERMAIN CROSSINGS. VIDEO INSPECTION TO OCCUR PRIOR TO PAVING PER SUDAS 4060.
11	4020-A-1	<u>STORM SEWER, TRENCHED, RCP, 18"</u> INCLUDES FLEXIBLE GASKET JOINTS AT WATERMAIN CROSSINGS. VIDEO INSPECTION TO OCCUR PRIOR TO PAVING PER SUDAS 4060.
12	4020-A-1	<u>STORM SEWER, TRENCHED, RCP, 24"</u> INCLUDES FLEXIBLE GASKET JOINTS AT WATERMAIN CROSSINGS. VIDEO INSPECTION TO OCCUR PRIOR TO PAVING PER SUDAS 4060.
13	4020-D	<u>REMOVAL OF STORM SEWER, LESS THAN 36"</u> REMOVAL, DISPOSAL, AND CAPPING OF PIPE; AND FURNISHING AND PLACING BACKFILL MATERIAL.
14	4040-A	<u>SUBDRAIN, HDPE, 6"</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.
15	4040-C	<u>SUBDRAIN CLEANOUT, TYPE A-1, 6"</u> THIS ITEM INCLUDED, BUT IS NOT LIMITED TO, ALL LABOR AND MATERIALS NECESSARY TO INSTALL SUBDRAIN CLEANOUTS AS SPECIFIED IN THE CONTRACT DOCUMENTS. PVC RISER PIPE SHALL BE SOLID WALL PVC. ALL CLEANOUTS TO BE PLACED BEHIND OF CURB. USE LIGHT DUTY (HS-20) CAST IRON CASTING.
16	4040-D	<u>SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6"</u> THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, PIPE, NON-SHRINK GROUT, COUPLING BANDS, AND RODENT GUARDS FOR ALL SUBDRAIN OUTLETS AND CONNECTIONS.
17	4040-X	<u>CONNECT TO SUBDRAIN PIPE</u> THIS ITEM INCLUDES , BUT NOT LIMITED TO, ALL LABOR AND MATERIALS NECESSARY TO MAKE A CONNECTION TO PROPOSED SUBDRAIN WITH THE USE OF A WYE. WYES WILL BE EITHER 6" X 1" OR 6" X 2". CONTRACTOR TO VERIFY PIPE DIAMETER FOR CONNECTION. INCLUDES UP TO 20' OF SCHEDULE 40 PIPE WITH CAPPED END, A STEEL MARKER AT THE END FOR LOCATING PURPOSES, AND CONNECTION TO EXISTING PIPE IF ONE EXISTS. LOCATION DETERMINED BY ENGINEER. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.

18	5010-A-1	<u>WATER MAIN, TRENCHED, C900 DR18 PVC, STAB JOINT, 8", 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. EACH TYPE AND SIZE OF PIPE WILL BE MEASURED IN LINEAR FEET ALONG THE CENTERLINE OF THE PIPE, INCLUDING THE LENGTH THROUGH THE FITTINGS. THE ENGINEER WILL MEASURE THE LENTH OF PIPE INSTALLED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE TO THE NEAREST 0.1 FOOT OF PVC PIPE INSTALLED AS MEASURED.
19	5010-A-2	<u>WATER MAIN, TRENCHED, C900 DR18 PVC, RESTRAINED JOINT, 8", 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. EACH TYPE AND SIZE OF PIPE WILL BE MEASURED IN LINEAR FEET ALONG THE CENTERLINE OF THE PIPE, INCLUDING THE LENGTH THROUGH THE FITTINGS. THE ENGINEER WILL MEASURE THE LENTH OF PIPE INSTALLED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE TO THE NEAREST 0.1 FOOT OF PVC PIPE INSTALLED AS MEASURED.
20	5010-C-2	<u>FITTING, 8"</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL DI FITTINGS OF SPECIFIED SIZE AND TYPE INCLUDING EXCAVATION, PIPE BEDDING, BONDING CABLES (DUCTILE IRON WATER MAIN ONLY), POLYETHYLENE ENCASEMENT, THRUST RESTRAINT, TRACER WIRE SYSTEM, BACKFILL, COMPACTION, PRESSURE TESTING, AND DISINFECTION, ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS. THE ENGINEER WILL MEASURE THE TOTAL WEIGHT OF FITTINGS INSTALLED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER POUND FOR EACH FITTING INSTALLED.
21	5010-D	<u>WATER SERVICE TRANSFER, COPPER, 1" (SAME SIDE)</u> CONTRACTOR IS REQUIRED TO COMPACT BACKFILL IN TAP HOLE USING APPROPRIATELY SIZED EQUIPMENT TO OBTAIN REQUIRED COMPACTION, INCLUDING HANDHELD COMPACTION DEVICES. COST FOR REPLACEMENT OF UNSUITABLE BACKFILL WILL BE PAID BY THE CONTRACTOR UNLESS APPROVED BY ENGINEER PRIOR TO WORK BEING COMPLETED. THE ENGINEER WILL COUNT THE NUMBER OF 1-INCH OPPOSITE SIDE WATER SERVICES TRANSFERRED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR EACH 1-INCH SAME SIDE WATER SERVICE TRANSFERRED.
22	5010-D	<u>WATER SERVICE TRANSFER, COPPER, 1" (OPPOSITE SIDE)</u> CONTRACTOR IS REQUIRED TO COMPACT BACKFILL IN TAP HOLE USING APPROPRIATELY SIZED EQUIPMENT TO OBTAIN REQUIRED COMPACTION, INCLUDING HANDHELD COMPACTION DEVICES. COST FOR REPLACEMENT OF UNSUITABLE BACKFILL WILL BE PAID BY THE CONTRACTOR UNLESS APPROVED BY ENGINEER PRIOR TO WORK BEING COMPLETED. THE ENGINEER WILL COUNT THE NUMBER OF 1-INCH OPPOSITE SIDE WATER SERVICES TRANSFERRED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR EACH 1-INCH OPPOSITE SIDE WATER SERVICE TRANSFERRED.
23	5010-E-3	<u>WATER SERVICE CURB STOP AND BOX, 1"</u>
24	5010-H	<u>WATER MAIN REMOVAL, 6"</u> PROVIDE MATERIAL, EQUIPMENT, AND LABOR TO CAP, REMOVE, AND PROPERTY DISPOSE OF EXISTING WATER MAIN INCLUDING ANY FITTINGS OR VALVES.
25	5020-A	<u>VALVE, GATE, DUCTILE IRON (DI), 8-IN</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. THE ENGINEER WILL COUNT THE NUMBER OF VALVES INSTALLED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR EACH VALVE INSTALLED.
26	5020-C	<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.
27	5020-E	<u>FLUSHING DEVICE (BLOW OFF)</u>
28	5020-J	<u>FIRE HYDRANT ASSEMBLY REMOVAL</u>
29	5020-L	<u>VALVE BOX REMOVAL</u>
30	5020-X-1	<u>TAP FEE, 1", REPLACEMENT TAP FOR WATER SERVICE TRANSFER</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.
31	5020-X-2	<u>PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE</u>

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CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET RECONSTRUCTION

ESTIMATE REFERENCE NOTES

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		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.
32	5020-X-3	FOUNDATION ROCK PROVIDE MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO PLACE ROCK USED TO STABILIZE PIPE TRENCHES PRIOR TO PIPE INSTALLATION. THE ESTIMATED QUANTITY ASSUMES WET CONDITIONS IN SOME AREAS. BASIS OF PAYMENT IS QUANTITIES SHOWN ON THE MATERIAL DELIVERY TICKETS PROVIDED TO ENGINEER. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE TO THE NEAREST TON OF FOUNDATION ROCK INSTALLED AND APPROVED BY ENGINEER.
33	6010-A	STORM MANHOLE, SW-401, 48" 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 SHALL BE STAMPED WITH "STORM". ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL.
34	6010-B	INTAKE, SW-503 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 SHALL BE STAMPED WITH "STORM". ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL.
35	6010-B	INTAKE, SW-505 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.
36	6010-B	INTAKE, SW-508 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.
37	6010-B	INTAKE, SW-510, MODIFIED EXCAVATION, FURNISHING BEDDING MATERIAL, PLACING BEDDING AND BACKFILL MATERIAL, COMPACTION, BASE, STRUCTURAL CONCRETE, REINFORCING STEEL, PRECAST UNITS (IF USED), INFILTRATION BARRIERS , CASTINGS, AND ADJUSTMENT RINGS. ANY SHORING SHALL BE CONSIDERED INCIDENTAL.
38	6010-E	MANHOLE ADJUSTMENT, MINOR SEE M SHEETS FOR LOCATION, ADJUSTMENT NEEDS, AND MODIFICATION NEEDS. CASTING TO BE TYPE B 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.
39	6010-F	MANHOLE ADJUSTMENT, MAJOR SEE M SHEETS FOR LOCATION, ADJUSTMENT NEEDS, AND MODIFICATION NEEDS. CASTING TO BE TYPE B 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.
40	6010-H	REMOVE MANHOLE REMOVAL OF CASTING, CONCRETE, AND REINFORCEMENT AND BACKFILLING WITH SUITABLE MATERIAL.
41	6010-H	REMOVE INTAKE REMOVAL OF CASTING, CONCRETE, AND REINFORCEMENT AND BACKFILLING WITH SUITABLE MATERIAL.
42	7010-A	PAVEMENT, PCC, 7" 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, AND BOXOUTS FOR FIXTURES. NO EXTRA PAYMENT FOR COLD WEATHER PAVING.
43	7030-A	REMOVAL OF DRIVEWAY 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.
44	7030-E	SIDEWALK, PCC, 4" 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.
45	7030-E	SIDEWALK, PCC, 6" 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.
46	7030-G	DETECTABLE WARNING DETECTABLE WARNINGS SHALL MEET CURRENT PROWAG STANDARDS. CONTRACTOR TO MATCH OTHERS USED IN

47	7030-H-1	DRIVEWAY, PAVED, PCC, 6" 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.
48	7030-H-2	DRIVEWAY, GRANULAR USED FOR TEMPORARY DRIVEWAY OR SIDEWALK AS SHOWN ON THE PLANS OR AS DIRECTED BY ENGINEER. INCLUDES THE PLACING AND REMOVAL OF ROCK.
49	7040-H	PAVEMENT REMOVAL 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.
50	8030-A	TEMPORARY TRAFFIC CONTROL ITEM SHALL INCLUDE ALL SIGNS, DELINEATORS, AND ARROW BOARDS AS STATED IN THESE PLANS FOR TRAFFIC CONTROL AND DETOUR. ANY SIGN PLACED FOR MORE THAN 3 DAYS SHALL BE PERMANENTLY MOUNTED ON A POST. EXTRA TYPE III BARRICADES AND CHANNELIZERS SHALL BE ON SITE AND DEPLOYED ACCORDING TO THE ENGINEER AND BE INCLUDED WITH THIS ITEM. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL TRAFFIC CONTROL DEVICES REQUIRED FOR THE DURATION OF THIS PROJECT IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS ADOPTED BY THE IDOT. ALL TRAFFIC CONTROL DEVICES SHALL BE PROPERLY LOCATED AND KEPT CLEAN AND LEGIBLE BY THE CONTRACTOR TO PROVIDE FOR SAFE TRAFFIC FLOW AT ALL TIMES. COORDINATE ALL STREET CLOSURES WITH THE ENGINEER AND THE CITY. TEMPORARY GRAVEL PATCHES TO MAINTAIN ACCESS FOR PHASED CONSTRUCTION IS INCIDENTAL TO THIS ITEM.
51	8040-D	PERFORATED SQUARE STEEL TUBE POSTS ITEM SHALL INCLUDE ALL NEW SIGNS AND POST TO MATCH THE LOCATION OF EXISTING SIGNS. PAID PER EACH REGARDLESS THE NUMBER OF SIGNS ON THE POST. SIGNS SHALL BE NEW MATCHING.
52	9010-D	WATERING THIS ITEM IS PROVIDE THE PROPOSED SEED WITH ENOUGH WATER TO MOISTEN THE DIRT TO A DEPTH OF 1 INCH AND ENSURE GROWTH OF THE SEED. WATER SHALL BE PREFORMED FOR 14 DAYS STRAIGHT. QUANTITY IS ESTIMATED AND USED TO ESTABLISHED A UNIT PRICE.
53	9020-A	SOD
54	9040-A-1	SWPPP PREPARATION 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.
55	9040-A-2	SWPPP MANAGEMENT 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.
56	9040-D-1	FILTER SOCK, 8" INCLUDES MAINTENANCE AND REMOVAL.
57	9040-O-1	STABILIZED CONSTRUCTION ENTRANCE INCLUDES REMOVAL.
58	9040-Q-2	EROSION CONTROL MULCHING, HYDRO MULCHING
59	9040-T-1	INLET PROTECTION DEVICE, MAINTENANCE, AND REMOVAL 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.
60	9070-A	MODULAR BLOCK RETAINING WALL
61	11020-A	MOBILIZATION 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.
62	11030-A	MAINTENANCE OF POSTAL SERVICE COORDINATE WITH USPS AND PROPERTY OWNERS FOR TEMPORARY MAILBOX LOCATION WHEN NECESSARY. ENSURING MAIL SERVICE IS MAINTAINED THROUGHOUT THE PROJECT. LOCATION AND SET UP OF MAIL BOX BANK TO BE APPROVED BY USPS AND ENGINEER PRIOR TO PLACEMENT. ITEM ALSO INCLUDES A BOX FOR DELIVERED PACKAGES LARGER THAN WHAT CAN FIT IN THE MAIL BOXES, MIN 4'X4'X3'.
63	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION CONTRACTOR SHALL COORDINATE WITH WASTE COLLECTION SERVICE TO ENSURE SERVICE IS MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT (INCLUDING RECYCLE). LABEL ALL BINS WITH ADDRESS BY REMOVABLE MEANS.
64	11040-A	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS THIS ITEM INCLUDES THE USE OR RENTAL OF A COURTESY CART DURING CONSTRUCTION, PERSONNEL TO OPERATE THE CART, MAINTENANCE OF SAID CART, AND INSURANCE FOR THE CART AND ITS OCCUPANTS DURING OPERATION. THE COURTESY CART WILL BE USED FOR TRANSPORTING RESIDENTS TO AND FROM THEIR PARKED VEHICLES TO THEIR RESIDENCES WHILE THE ROADWAY IS CLOSED TO VEHICULAR TRAFFIC. THE CONTRACTOR HAS THE OPTION REGARDING THE KIND OF CART PROVIDED (GOLF, GATOR, ETC.). ENGINEER ON RECORD SHALL APPROVE CART OPTION. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A MOBILE PHONE NUMBER TO WHICH RESIDENTS CAN CALL BETWEEN THE HOURS OF 7:00 AM TO 7:00 PM. MONDAY THROUGH SUNDAY. TO WHICH THEY WILL BE ABLE TO REACH THE COURTESY CART DRIVER. REFER TO THE J SHEET FOR ADDITIONAL INFORMATION. THE CART WILL OPERATE IN CONJUNCTION WITH GRADING AND PAVING OPERATIONS. THE MAXIMUM WAIT TIME FOR THE COURTESY CART SHALL BE 30 MINUTES.

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CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET RECONSTRUCTION

ESTIMATE REFERENCE NOTES

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65	11050-A	CONCRETE WASHOUT PROVIDING CONCRETE WASHWATER CONTAINMENT, COLLECTION, AND DISPOSAL.
66	12040-X-X	CURBSIDE MAILBOX THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF EXISTNG POST, SALVAGING EXISTING MAILBOX, EXCAVATION FOR POST, A NEW 4"X4" POST OR POST THAT MATCHES MAILBOX ASSEMBLY, AND INSTALLATION OF SALVAGED MAILBOX. COORDINATED WITH THE LOCAL POSTMASTER AND USPS WEBSITE FOR GUIDANCE ON MAIL BOX INSTALLATION. CONTRACTOR RESPONSIBLE FOR DAMAGED MAILBOX DURING STORAGE AND SHALL REPLACE AT NO EXPENSE TO OWNER. OWNER MAY PROVIDE A NEW MAILBOX FOR INSTALLATION.
67		

EXCAVATION QUANTITY	Depth, FT	Quantity, SY	Quantity, SF	Volume, CF	Volume, CY	CUT, CY	FILL, CY	FILL FACTOR	ADJ. FILL	NET CUT, CY
Excavation RAW data (EG-FG)						239.00	173.61	1.35	234.37	4.63
Existing Pavement Removal (Average 6")	0.50	3,976.44	35,787.99	17,894.00	662.74					
Existing Driveway Removal (assumed 6")	0.50	686.84	6,181.53	3,090.77	114.47					
Proposed 7" Paving	0.58	4,277.44	38,496.96	22,456.56	831.72					
Modified Subbase 8"	0.67	5,490.54	49,414.85	32,943.23	1,220.12					
Proposed Sidewalk 4"	0.33	530.31	4,772.76	1,590.92	58.92					
Proposed Sidewalk 6"	0.50	22.68	204.13	102.07	3.78					
Proposed Driveway	0.50	838.90	7,550.06	3,775.03	139.82					
Proposed Topsoil	0.50	2,323.34	20,910.08	10,455.04	387.22					
Paving Difference						1389.10				
Sidewalk Difference						62.70				
Driveway Difference						25.34				
Topsoil						-387.22				
						1328.93	173.61	1.35	234.37	1094.55

STORM SEWER PIPES							
PIPE NAME	FROM STRUCTURE	TO STRUCTURE	PIPE DIA	Length	PIPE GRADE	START INV	END INV
STRM-1	INT-1	MH - 12	24" RCP	14 LF	1.00%	888.19	888.05
STRM-2	INT-2	INT-1	15" RCP	22 LF	10.00%	891.50	889.29
STRM-3	INT-3	INT-1	24" RCP	58 LF	2.08%	889.59	888.39
STRM-4	MH-1	INT-3	24" RCP	27 LF	2.50%	890.35	889.69
STRM-5	MH - 13	MH-1	15" RCP	8 LF	2.18%	890.62	890.45
STRM-6	INT-4	MH-1	18" RCP	84 LF	6.00%	895.59	890.55
STRM-7	INT-5	INT-4	15" RCP	27 LF	2.00%	898.04	897.50
STRM-8	INT-6	INT-4	15" RCP	275 LF	5.49%	910.78	895.69
STRM-9	INT-7	INT-6	15" RCP	27 LF	2.00%	911.82	911.28
STRM-10	INT-8	INT-6	15" RCP	252 LF	4.93%	923.32	910.88
STRM-11	INT-9	INT-8	15" RCP	27 LF	2.00%	924.36	923.82

STORM SEWER STRUCTURES							
STRUCTURE	ALIGNMENT	STATION	OFFSET	TYPE	RIM/FG ELEV	INLET ELEV	OUTLET ELEV
INT-1	127880_68th St	1+06.00	8.89' RT	SW-510 N MODIFIED	896.40	889.29, 15" RCP W 888.39, 24" RCP N	888.19, 24" RCP SE
INT-2	127880_68th St	1+11.52	-12.50' LT	"SW-508"	896.59	893.83, 6" HDPE NW	891.50, 15" RCP E
INT-3	127880_68th St	1+63.58	13.50' RT	SW-503 N	898.24	896.11, 6" HDPE NE 889.69, 24" RCP W	889.59, 24" RCP S
INT-4	127880_68th St	2+50.00	-13.50' LT	SW-505 N	901.75	895.69, 15" RCP N 897.50, 15" RCP E 899.54, 6" HDPE N	895.59, 18" RCP S
INT-5	127880_68th St	2+50.00	13.50' RT	SW-505 N	901.75	899.54, 6" HDPE N	898.04, 15" RCP W
INT-6	127880_68th St	5+25.00	-13.50' LT	SW-505 N	915.35	910.88, 15" RCP N 911.28, 15" RCP E 913.02, 6" HDPE N	910.78, 15" RCP S
INT-7	127880_68th St	5+25.00	13.50' RT	SW-505 N	915.35	913.02, 6" HDPE N	911.82, 15" RCP W
INT-8	127880_68th St	7+77.28	-13.50' LT	SW-505 N	927.96	923.82, 15" RCP E 925.46, 6" HDPE N	923.32, 15" RCP S
INT-9	127880_68th St	7+77.28	13.50' RT	SW-505 N	927.96	925.46, 6" HDPE N	924.36, 15" RCP W
MH-1	127880_68th St	1+65.97	-12.89' LT	SW-401 N 48	898.37	890.55, 18" RCP N 890.45, 15" RCP W 896.15, 6" HDPE W	890.35, 24" RCP E

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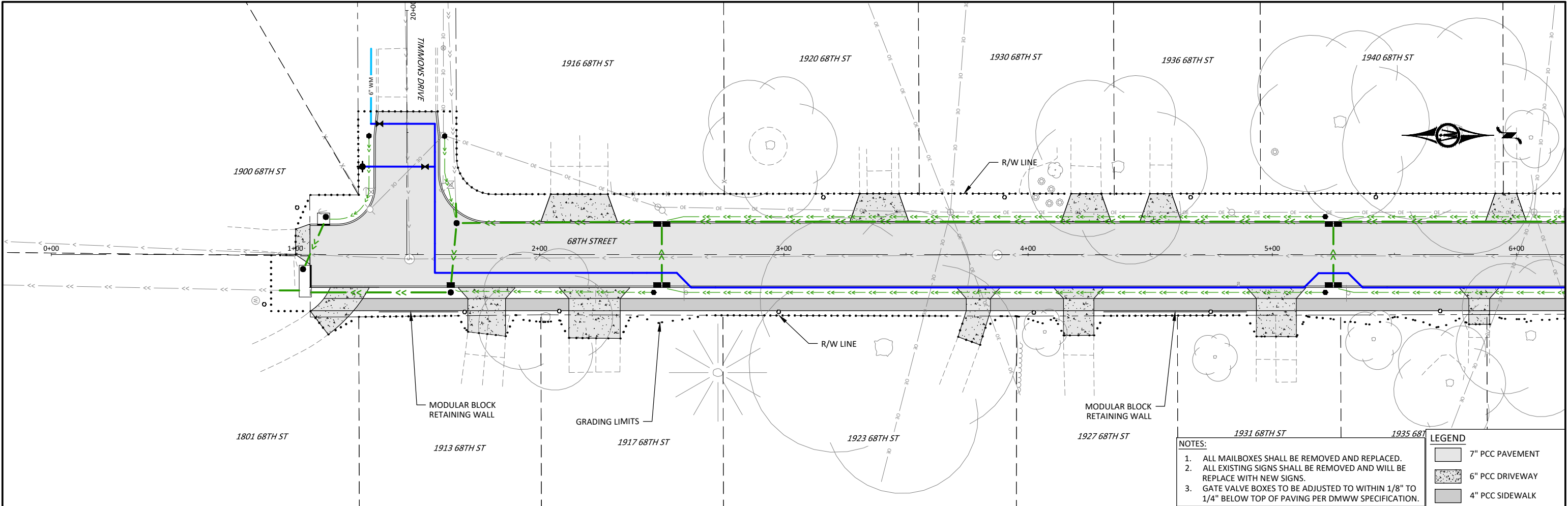
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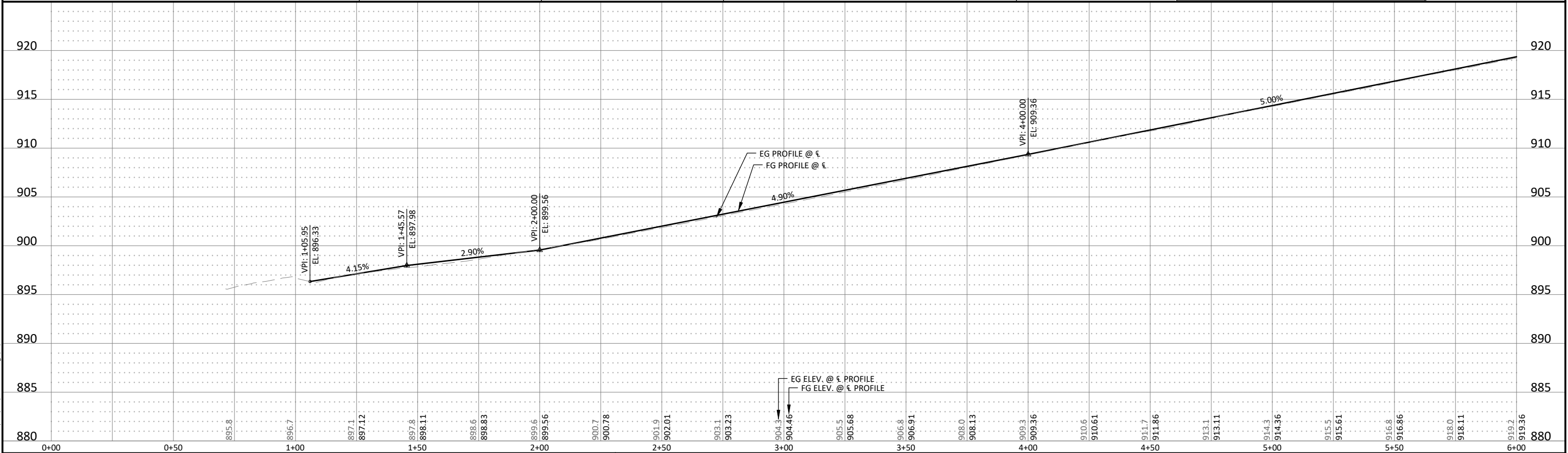


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CITY OF WINDSOR HEIGHTS, IOWA	SHEET C.05
68TH STREET RECONSTRUCTION	
TABULATIONS	



- NOTES:
1. ALL MAILBOXES SHALL BE REMOVED AND REPLACED.
 2. ALL EXISTING SIGNS SHALL BE REMOVED AND WILL BE REPLACE WITH NEW SIGNS.
 3. GATE VALVE BOXES TO BE ADJUSTED TO WITHIN 1/8" TO 1/4" BELOW TOP OF PAVING PER DMWW SPECIFICATION.
- LEGEND
- 7" PCC PAVEMENT
 - 6" PCC DRIVEWAY
 - 4" PCC SIDEWALK



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SCALE FEET

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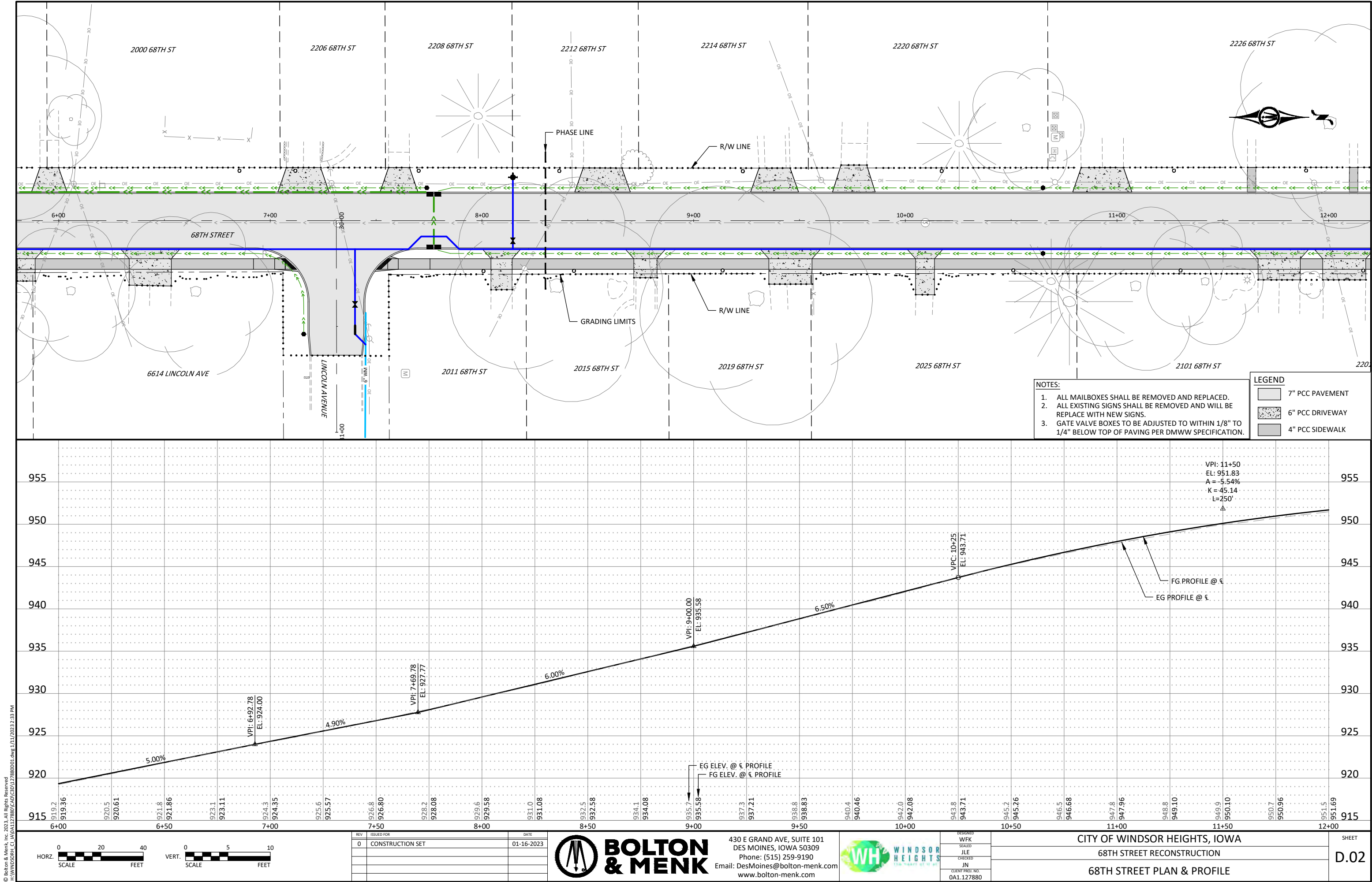
CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET RECONSTRUCTION

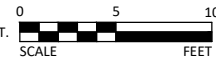
68TH STREET PLAN & PROFILE

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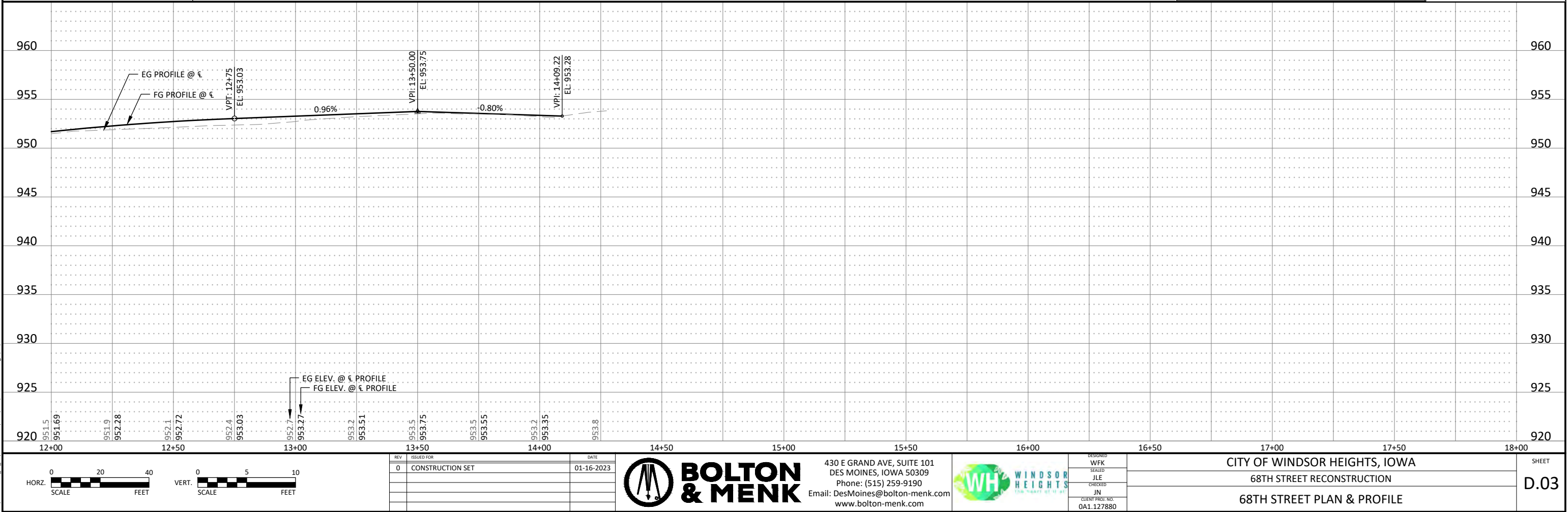
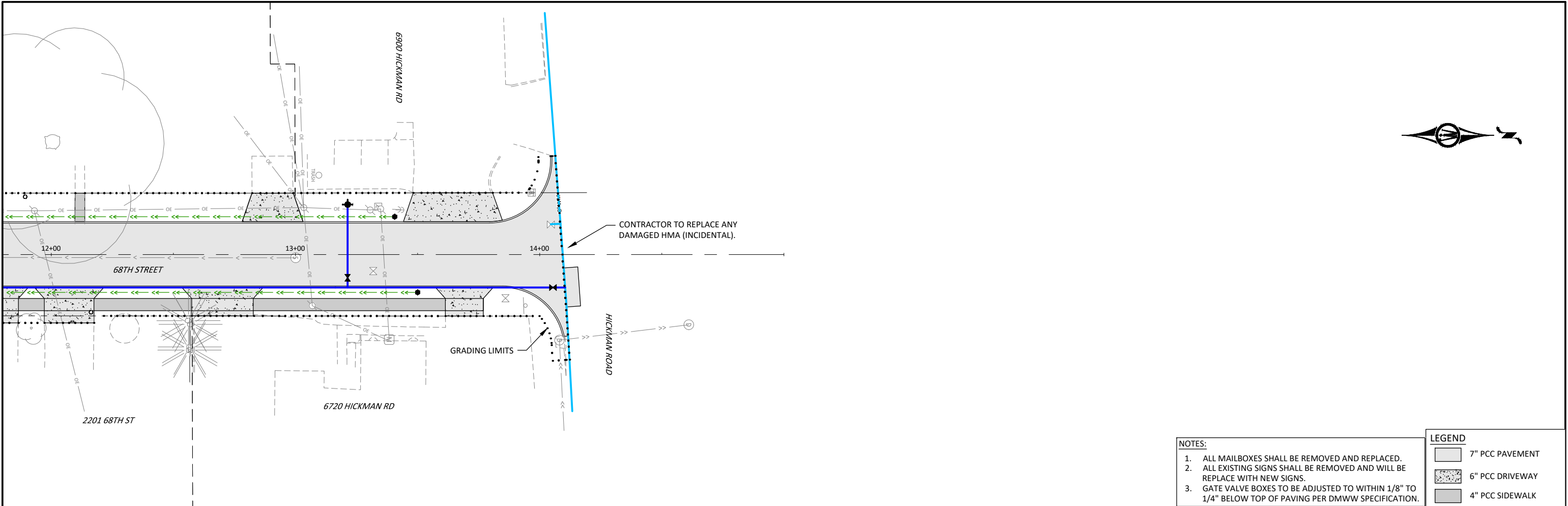
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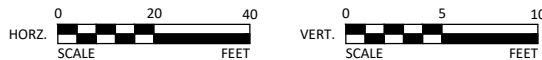
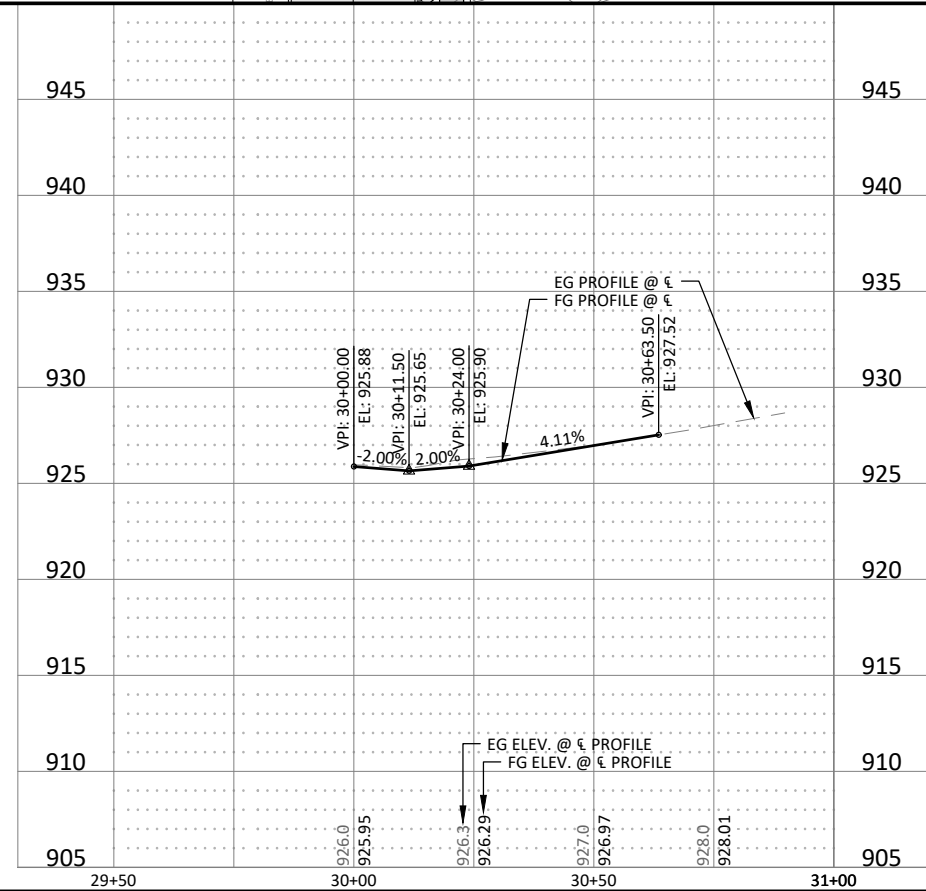
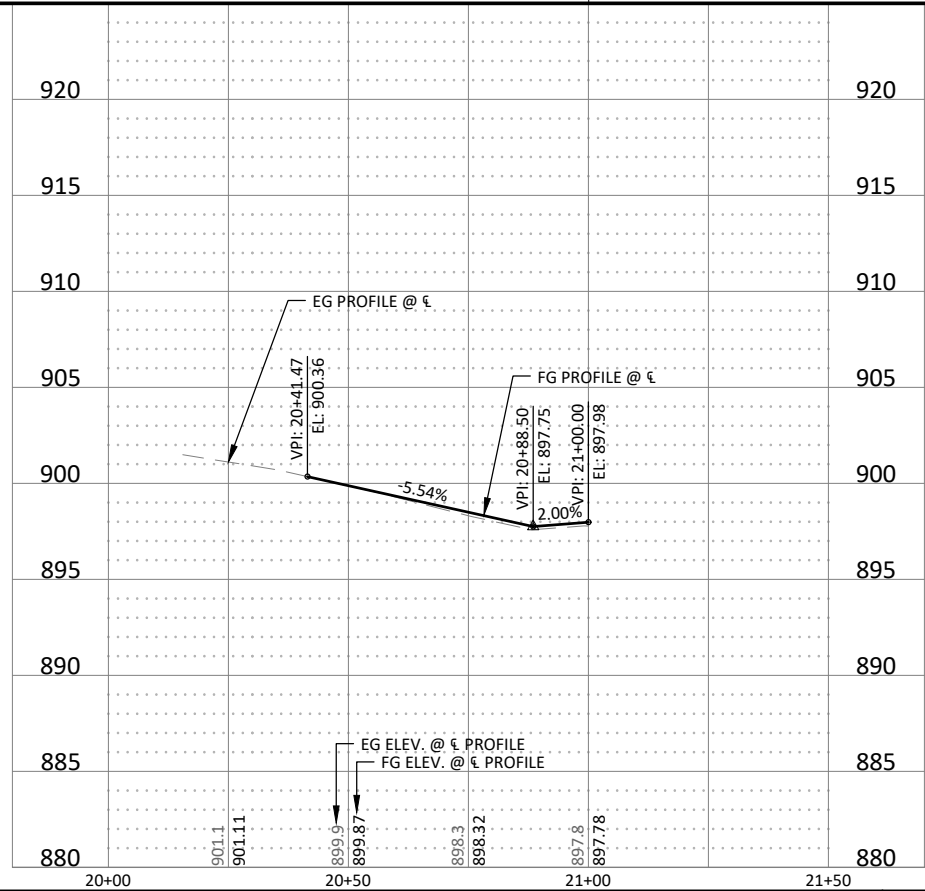
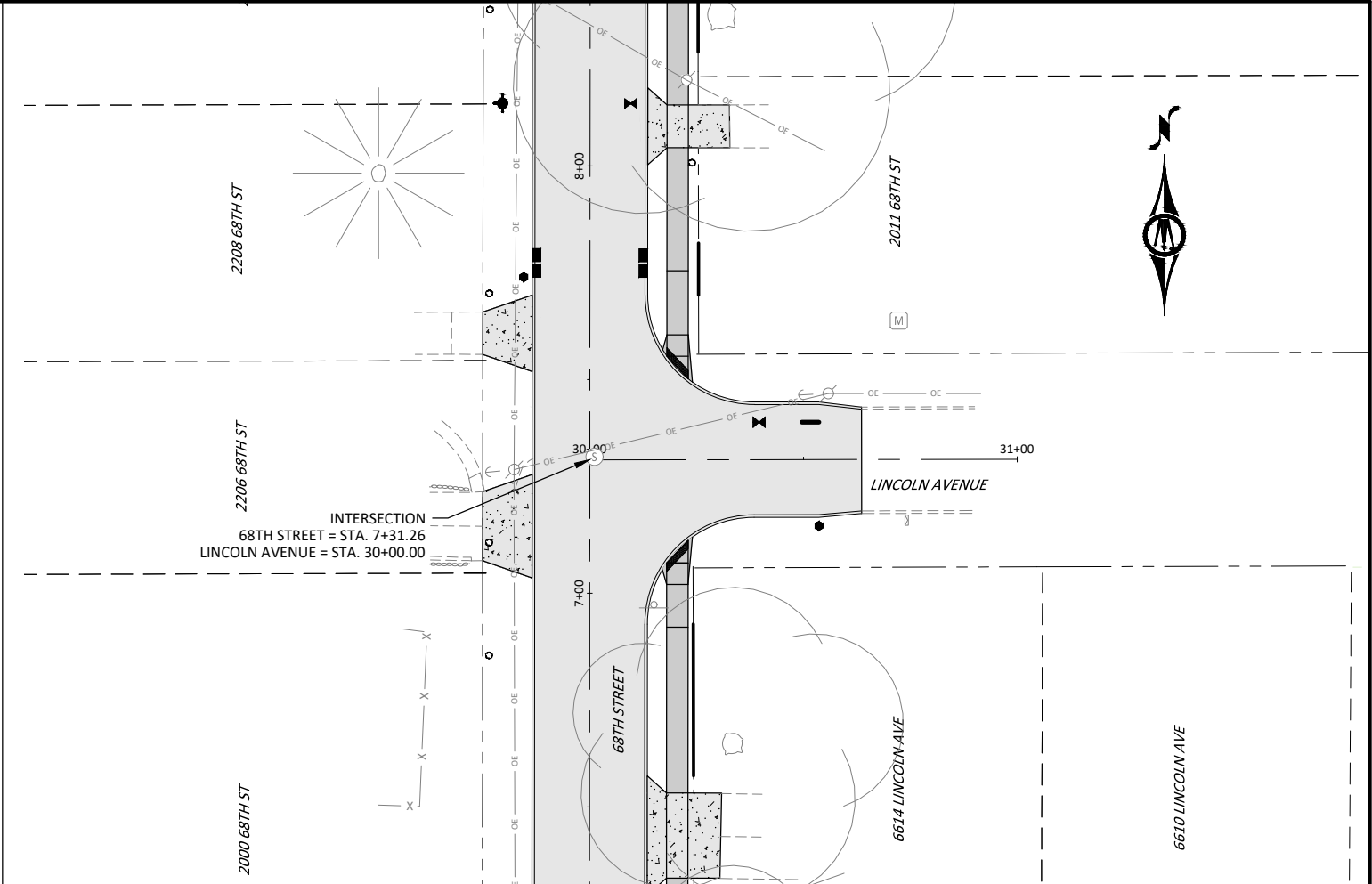
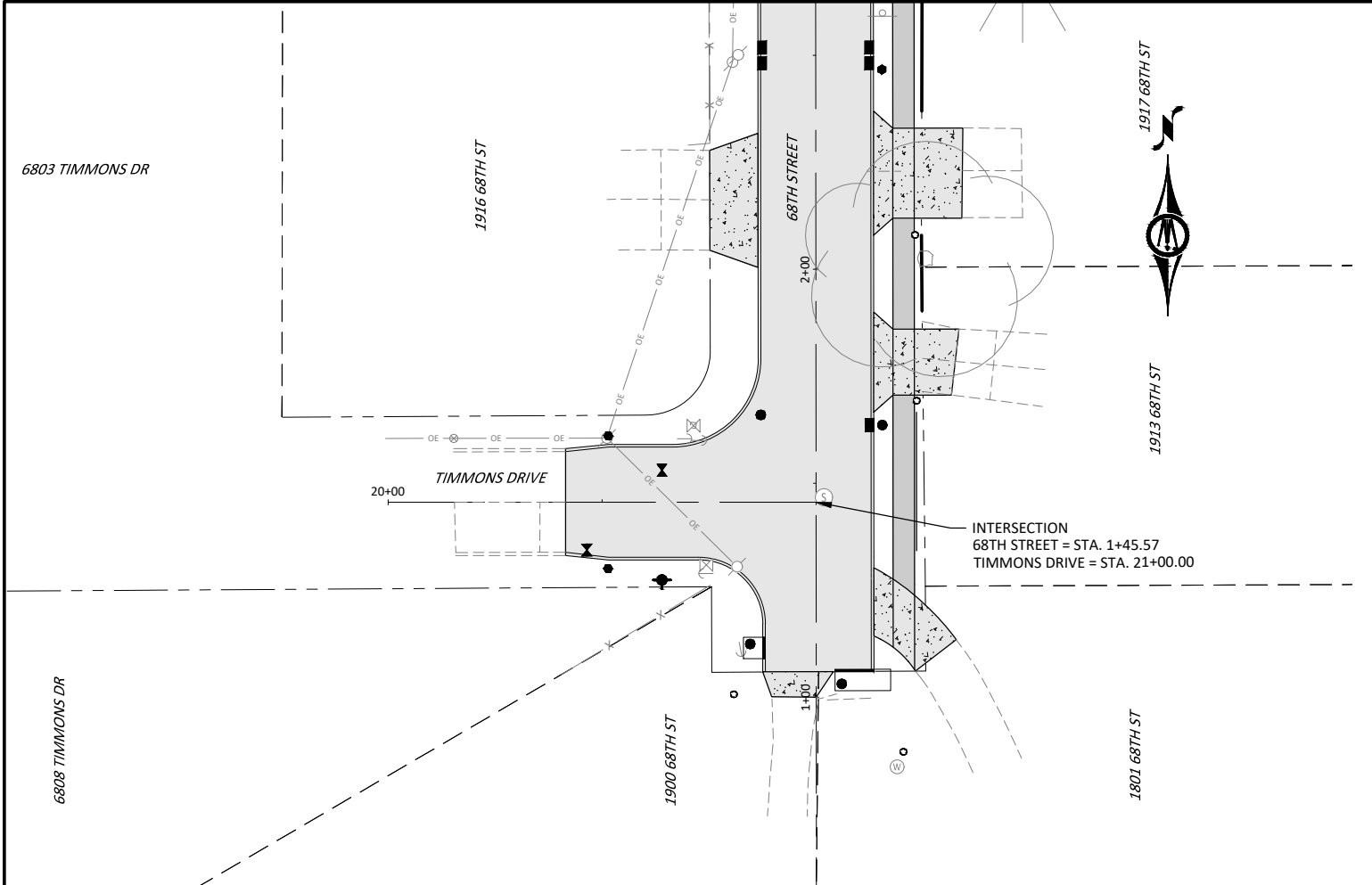
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68TH STREET RECONSTRUCTION
68TH STREET PLAN & PROFILE

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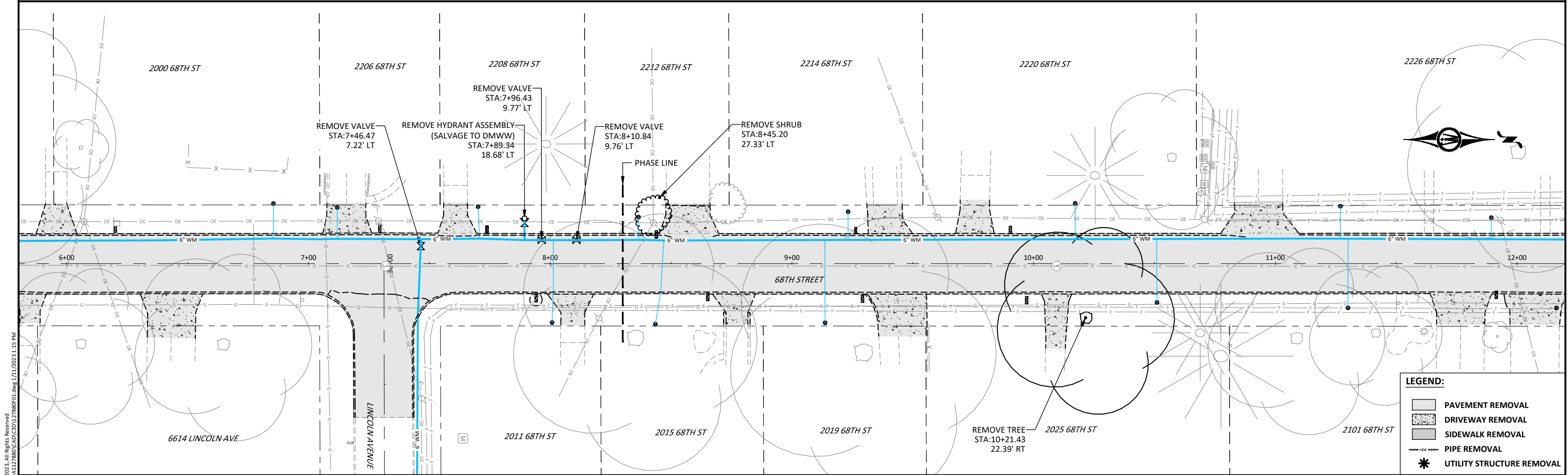
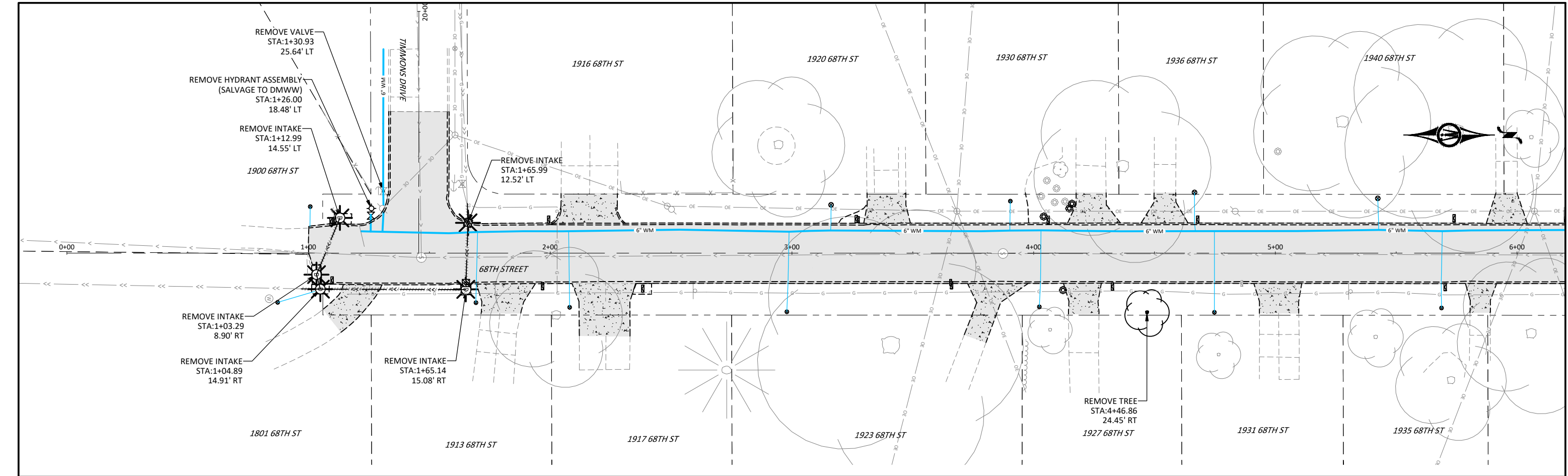


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68TH STREET RECONSTRUCTION
SIDE ROADS PLAN & PROFILE

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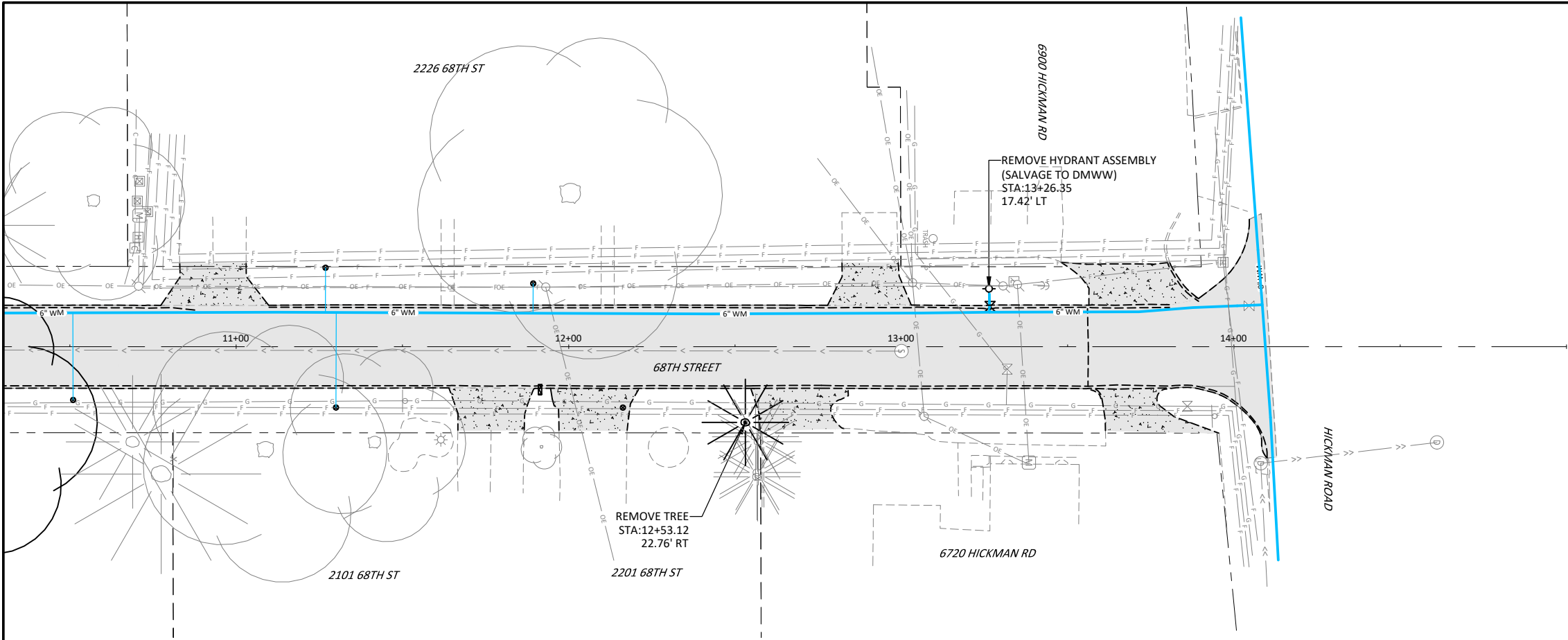
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET RECONSTRUCTION
EXISTING CONDITIONS & REMOVALS

SHEET
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LEGEND:

- PAVEMENT REMOVAL
- DRIVEWAY REMOVAL
- SIDEWALK REMOVAL
- PIPE REMOVAL
- UTILITY STRUCTURE REMOVAL

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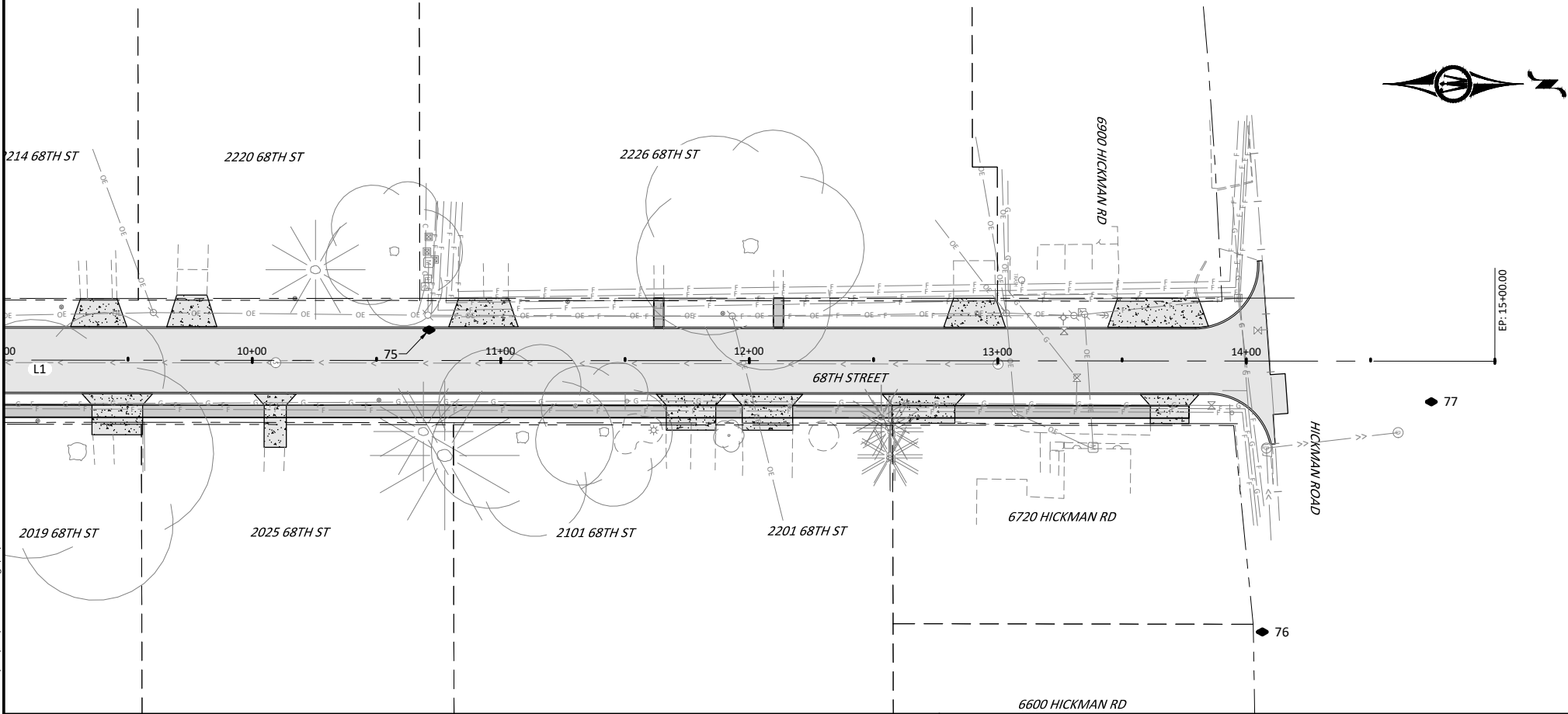
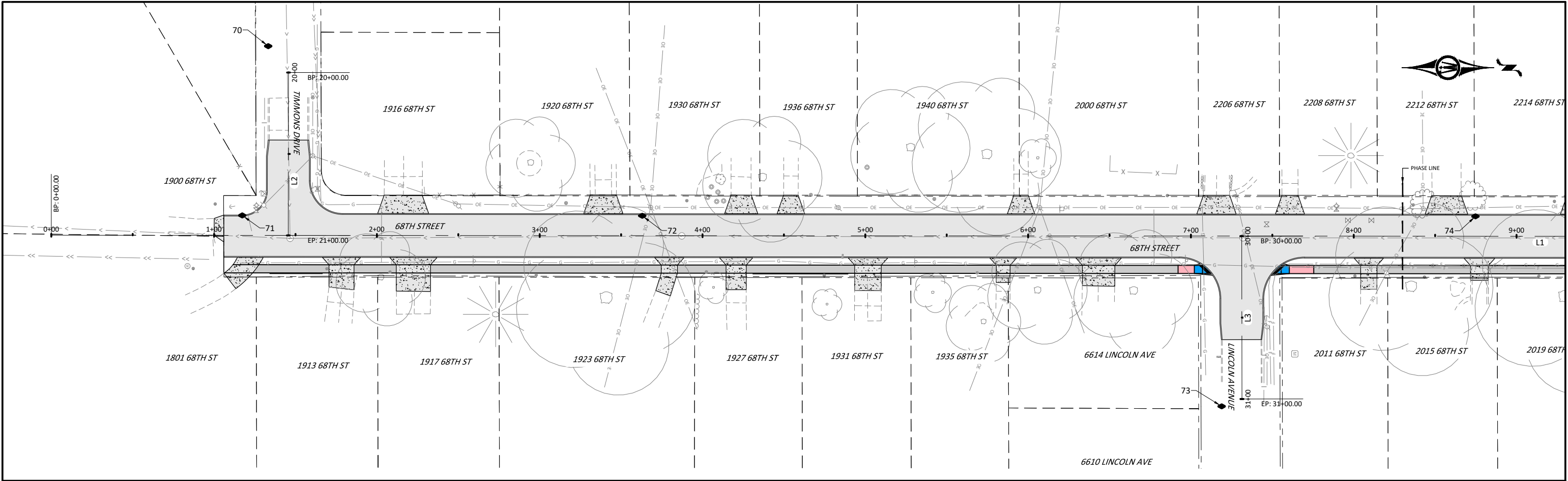


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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET RECONSTRUCTION

EXISTING CONDITIONS & REMOVALS

SHEET
F.02



68TH STREET - ALIGNMENT DATA						
NUMBER	LENGTH (FT)	START POINT (EASTING, NORTHING)	END POINT (EASTING, NORTHING)	START STATION	END STATION	LINE / CHORD DIRECTION
L1	1500.000	(18501905.48,7495862.56)	(18501906.56,7497362.56)	0+00	15+00	N0° 02' 28.92"E
TIMMONS DRIVE - ALIGNMENT DATA						
NUMBER	LENGTH (FT)	START POINT (EASTING, NORTHING)	END POINT (EASTING, NORTHING)	START STATION	END STATION	LINE / CHORD DIRECTION
L2	100.000	(18501805.58,7496008.28)	(18501905.58,7496008.12)	20+00	21+00	S89° 54' 31.60"E
LINCOLN AVENUE - ALIGNMENT DATA						
NUMBER	LENGTH (FT)	START POINT (EASTING, NORTHING)	END POINT (EASTING, NORTHING)	START STATION	END STATION	LINE / CHORD DIRECTION
L3	100.003	(18501906.00,7496593.75)	(18502006.01,7496593.90)	30+00	31+00	N89° 54' 57.51"E

POINT LAT/LONG DATA				
POINT NUMBER	RAW DESCRIPTION	ELEVATION	NORTH	EAST
70	VFCP /CUT X BOC	903.307	7495995.82	18501789.41
71	VFCP /CUT X NE COR INTAKE	897.177	7495979.90	18501893.31
72	VFCP /CUT X BOC	907.567	7496225.54	18501893.52
73	VFCP /CUT X BOC	929.467	7496581.47	18502010.50
74	VFCP /CUT X BOC	934.437	7496737.33	18501893.87
75	VFCP /CUT X BOC	946.697	7496933.73	18501893.96
76	VFCP /CUT X EOWK	954.417	7497269.00	18502015.56
77	VFCP /CUT X BOC	953.957	7497336.99	18501922.90

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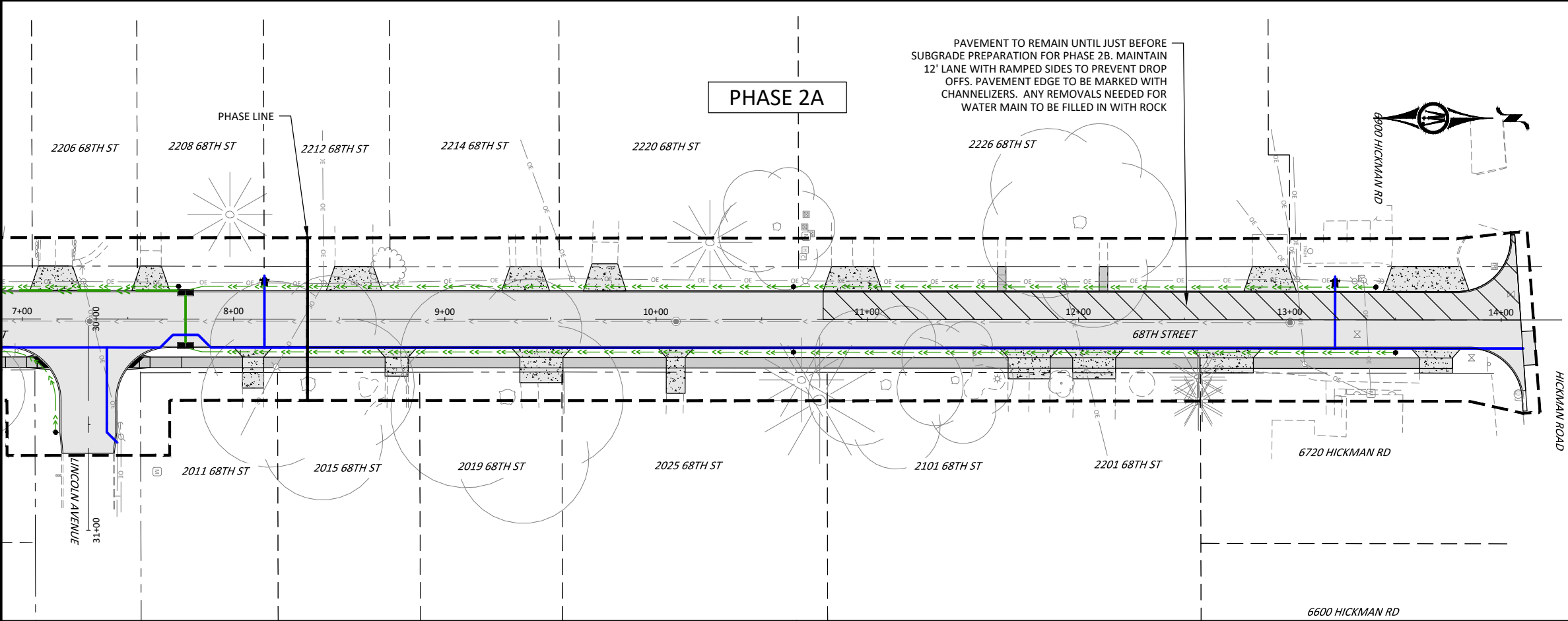
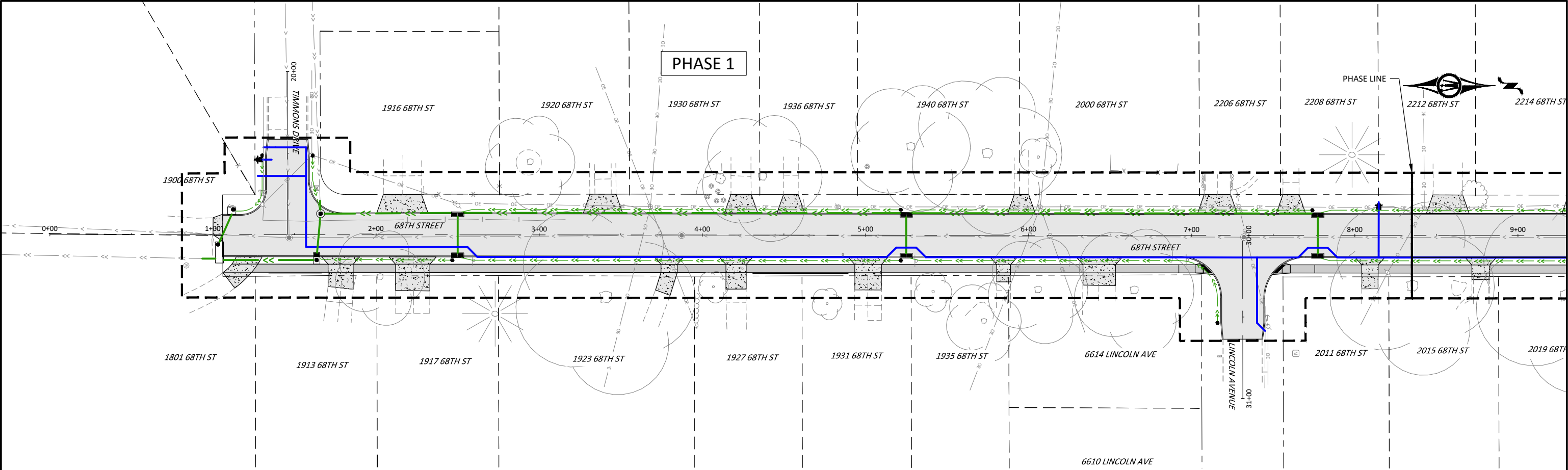


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CITY OF WINDSOR HEIGHTS, IOWA	SHEET G.01
68TH STREET RECONSTRUCTION	
REFERENCE TIES & BENCHMARKS	



- STAGING NOTES:**
1. THE CONTRACTOR IS TO CONSTRUCT THE PROJECT IN 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 EVERY STAGE TO TRAFFIC.
 5. SITE RESTORATION SHALL BE COMPLETE PRIOR TO THE NEXT STAGE STARTING.

- MAINTAINING MOBILITY FOR RESIDENTS:**
1. DUE TO THE MOBILITY ISSUES OF SEVERAL RESIDENTS ALONG THE CORRIDOR, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A COURTESY CART FOR TRANSPORTING RESIDENTS TO AND FROM THEIR PARKED VEHICLES TO THEIR PLACE OF RESIDENCE WHILE THE ROADWAY IS CLOSED.
 2. THE CONTRACTOR HAS THE OPTION REGARDING THE KIND OF CART PROVIDED (GOLF, GATOR, ETC.) ENGINEER ON RECORD SHALL APPROVE CART OPTION.
 3. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE A MOBILE PHONE NUMBER TO WHICH RESIDENTS CAN CALL BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM, MONDAY THROUGH SUNDAY TO WHICH THEY WILL BE ABLE TO REACH THE COURTESY CART DRIVER, UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE WITH THE RESIDENTS.
 4. THE CART WILL OPERATE IN CONJUNCTION WITH GRADING AND PAVING OPERATIONS. THE MAXIMUM WAIT TIME FOR THE COURTESY CART SHALL BE 1 HOUR.

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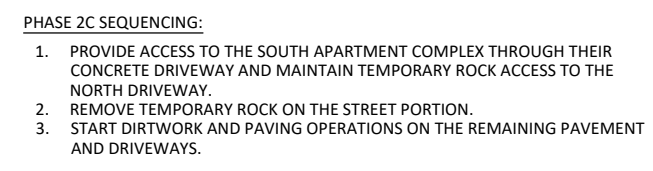
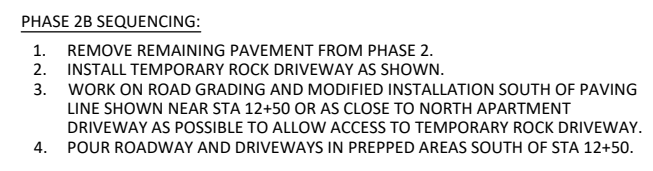


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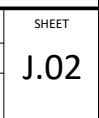


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CITY OF WINDSOR HEIGHTS, IOWA	SHEET
68TH STREET RECONSTRUCTION	J.01
STAGING PLAN	

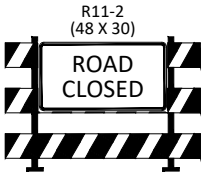


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TRAFFIC CONTROL NOTES:

1. SPECIFIC TRAFFIC CONTROL LAYOUTS ARE SHOWN ON THESE PLANS. THESE ARE GENERAL TRAFFIC CONTROL LAYOUTS FOR INFORMATION ONLY.
2. 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.
3. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
4. PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF 3 DAYS OR LESS. ALL OTHER TRAFFIC CONTROL SHALL BE POST MOUNTED.
5. THE PROPOSED SIGNAGE MAY BE MODIFIED TO MEET FIELD CONDITIONS, PREVENT OBSTRUCTIONS AND TO ACCOMMODATE CONSTRUCTION SCHEDULING UPON APPROVAL OF THE PROJECT ENGINEER.
6. 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.
7. SIGNAGE MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.
8. ALL CONSTRUCTION SIGNS SHALL BE DIAMOND GRADE FLUORESCENT ORANGE OR WHITE V.I.P. SHEETING OR EQUIVALENT. (IOWA DOT TYPE VII SHEETING).
9. THE CONTRACTOR SHALL REMOVE AND REINSTALL ALL CITY SIGNS THAT WILL BE IN THE WAY.
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.



TYPE III BARRICADE

A



TYPE III BARRICADE

B



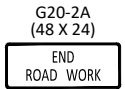
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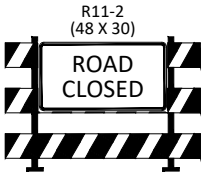
TRAFFIC CONTROL PHASE 1

SHEET

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TYPE III BARRICADE

A



TYPE III BARRICADE

B



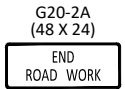
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E



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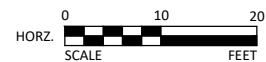
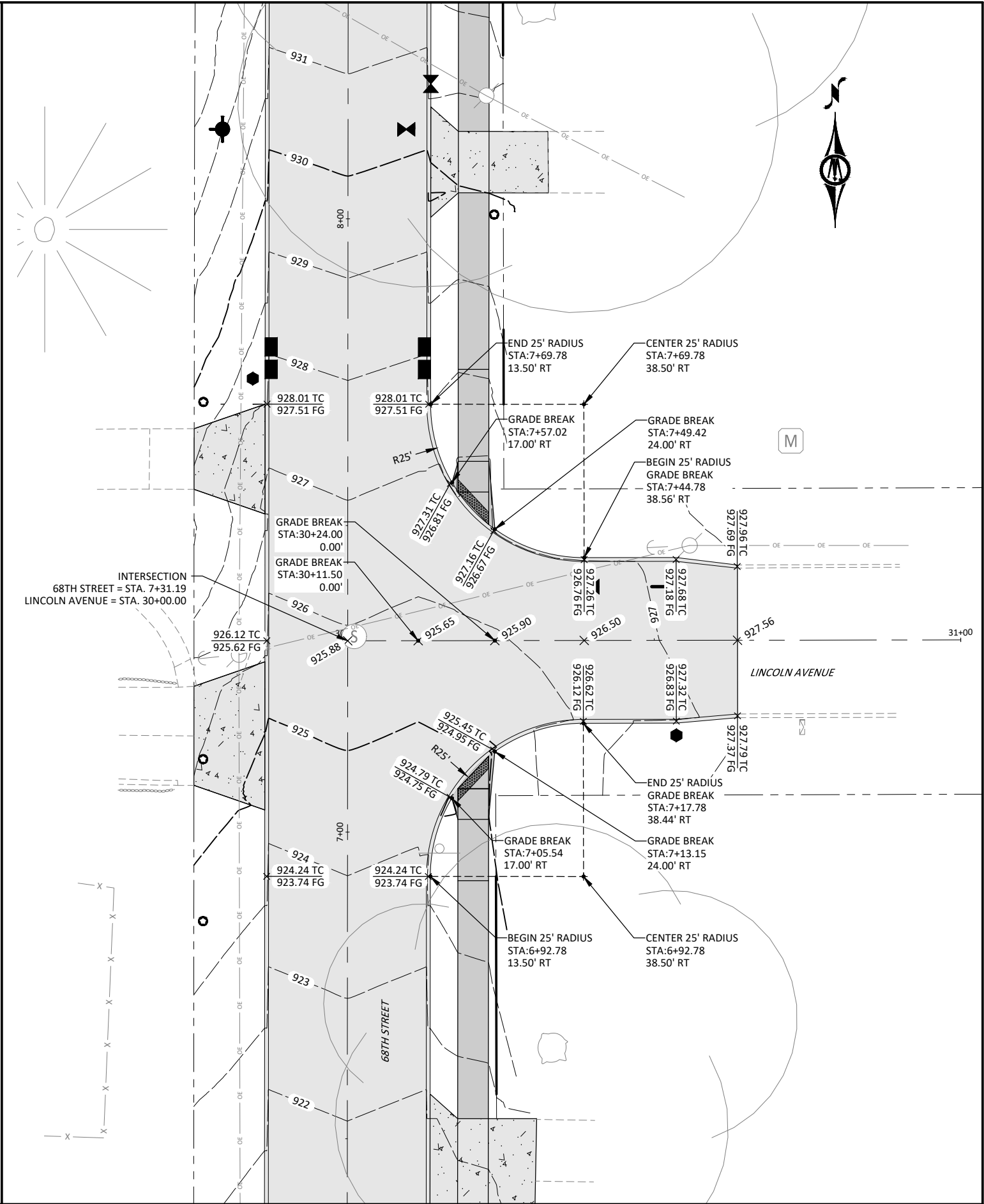
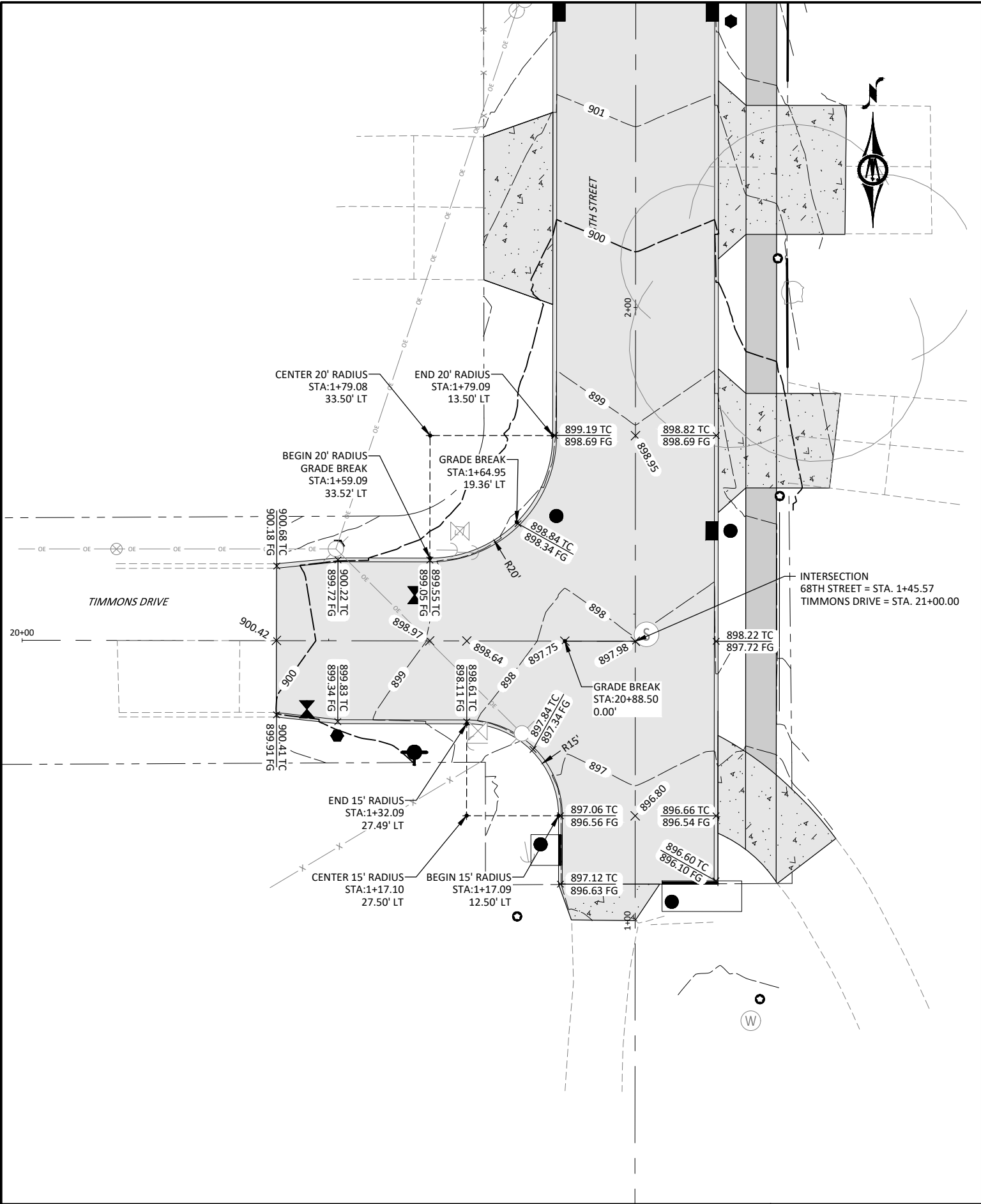
68TH STREET RECONSTRUCTION

TRAFFIC CONTROL PHASE 1

SHEET

J.03

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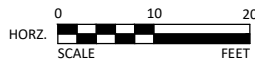
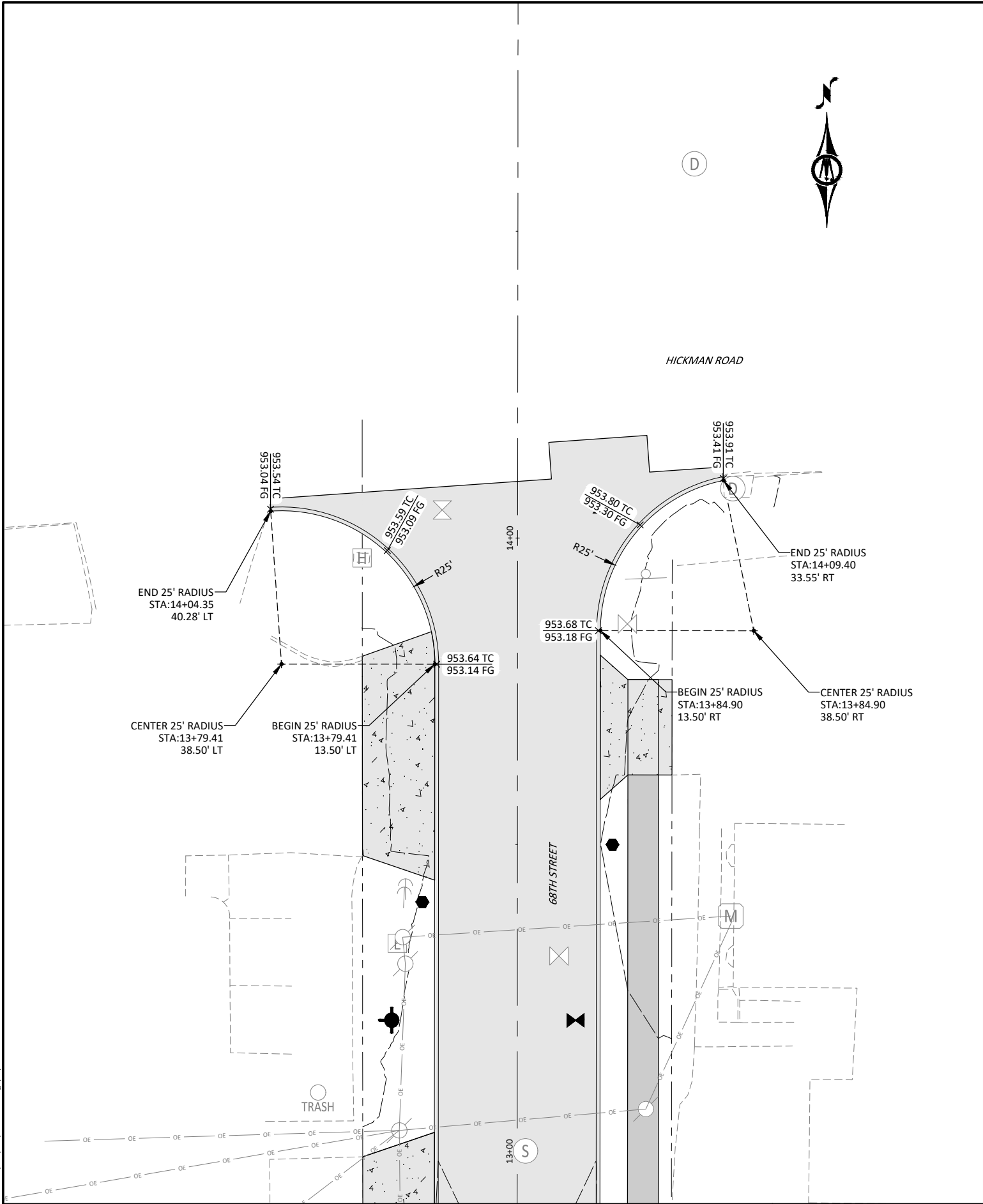


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68TH STREET RECONSTRUCTION
INTERSECTION DETAILS

SHEET
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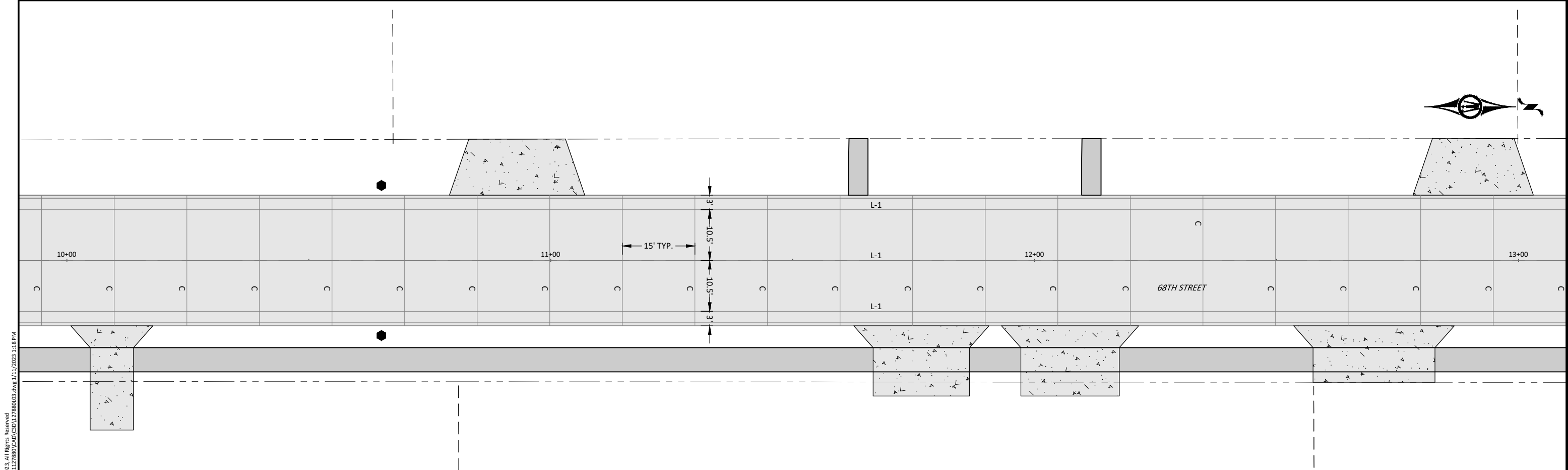
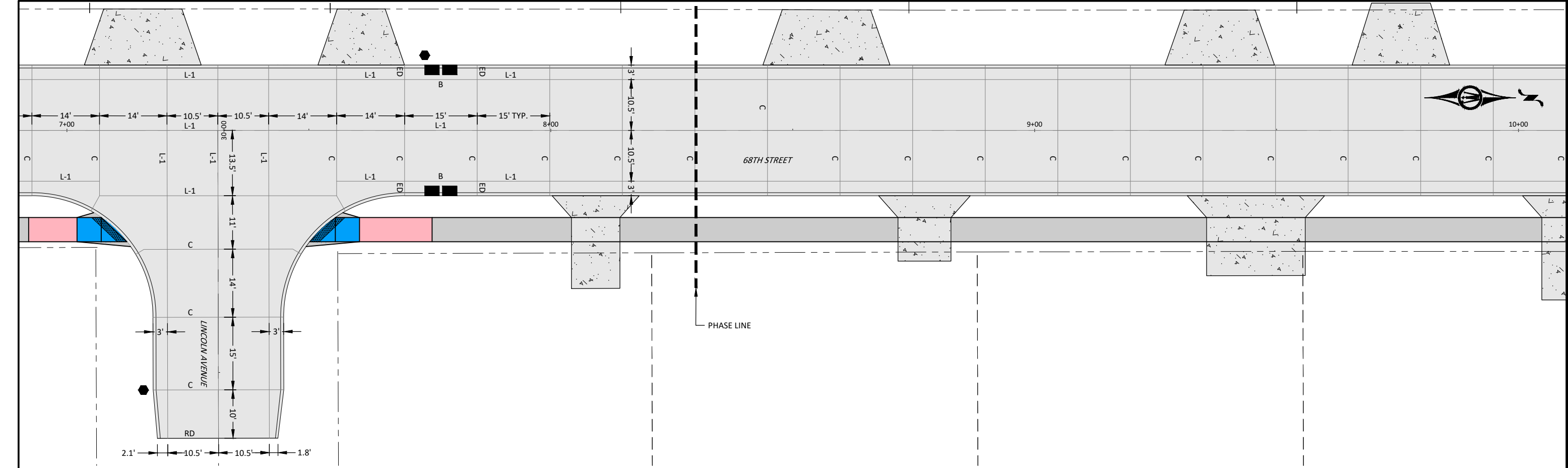


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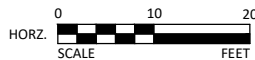
CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET RECONSTRUCTION
INTERSECTION DETAILS

SHEET

L.02



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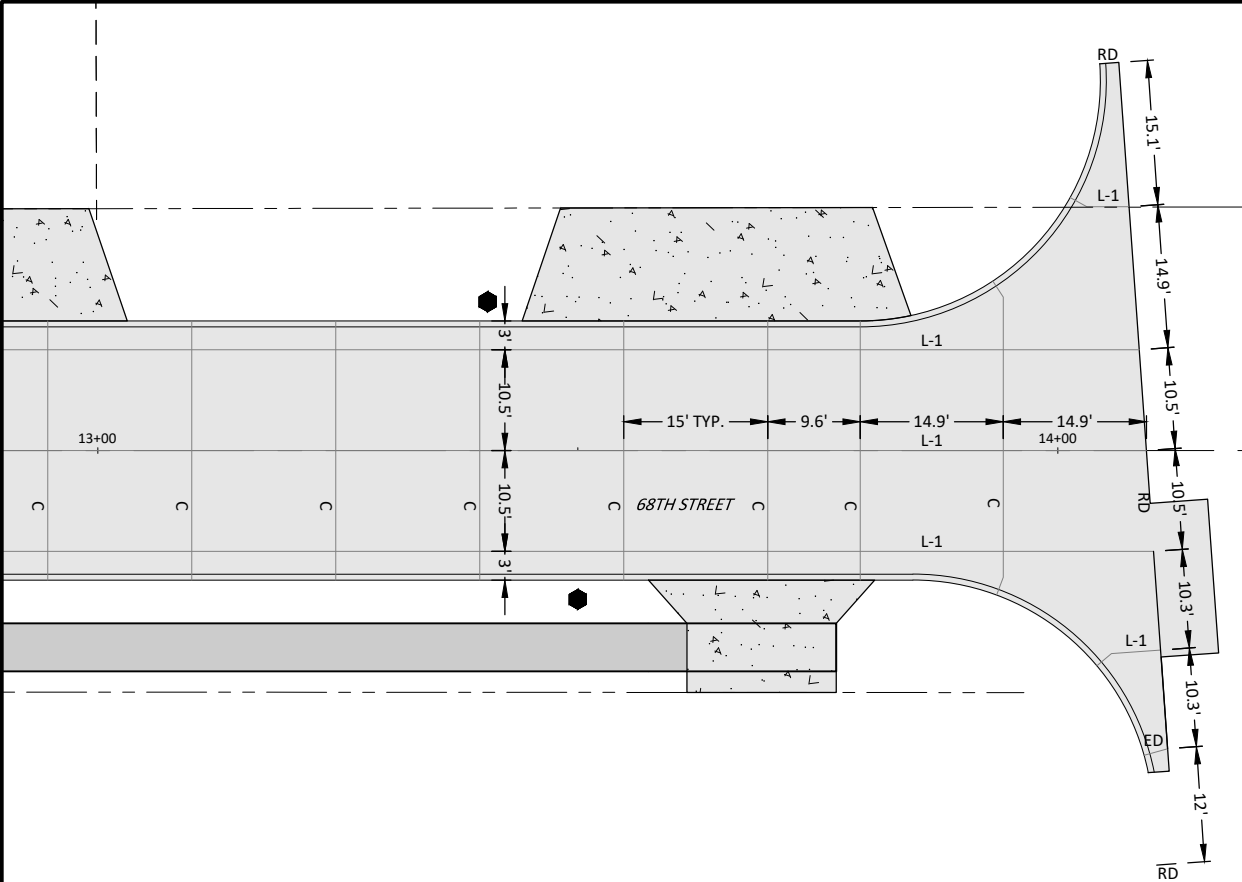
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68TH STREET RECONSTRUCTION
JOINTING PLAN

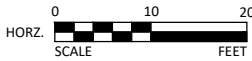
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HICKMAN ROAD



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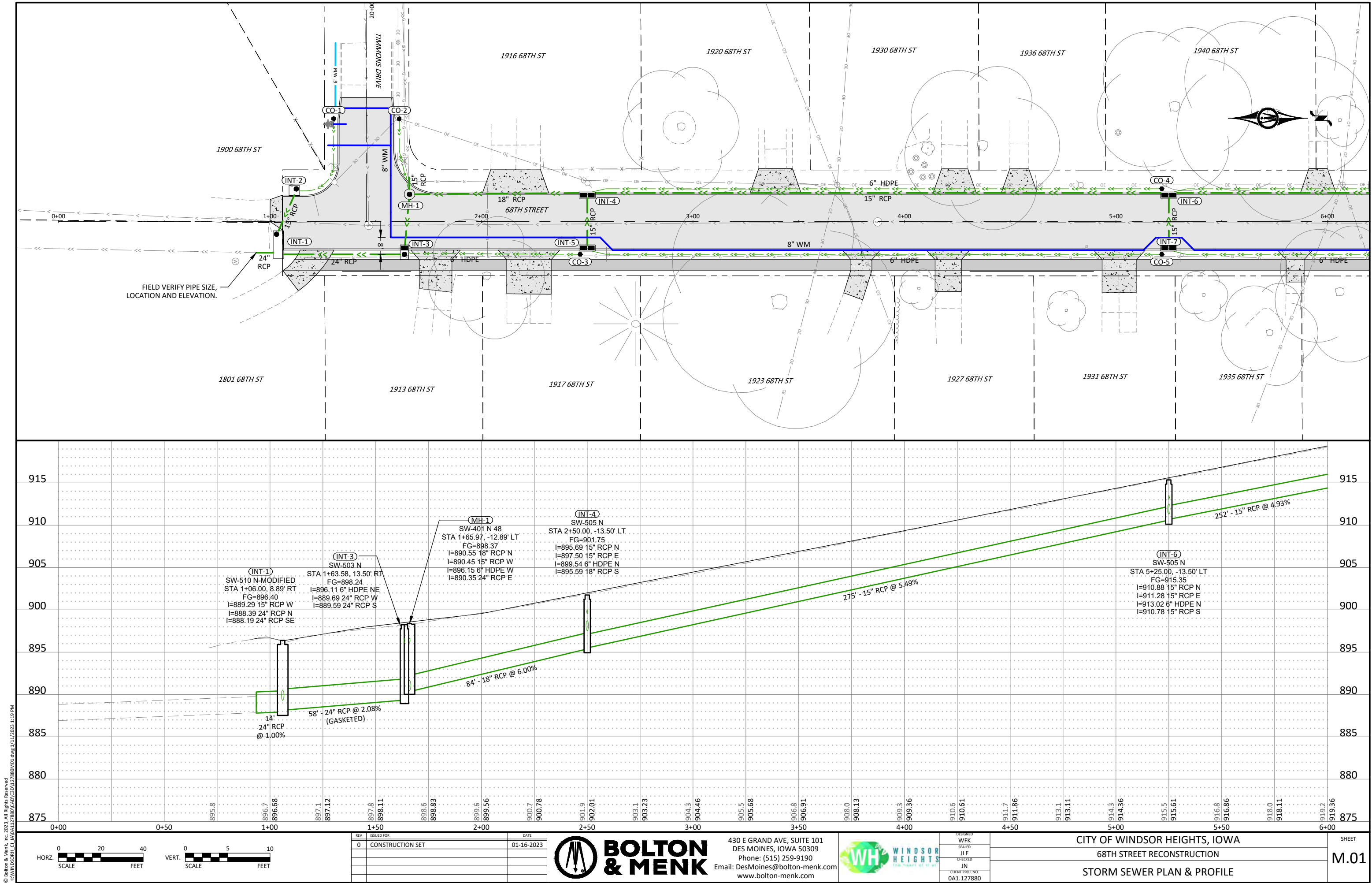
CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET RECONSTRUCTION

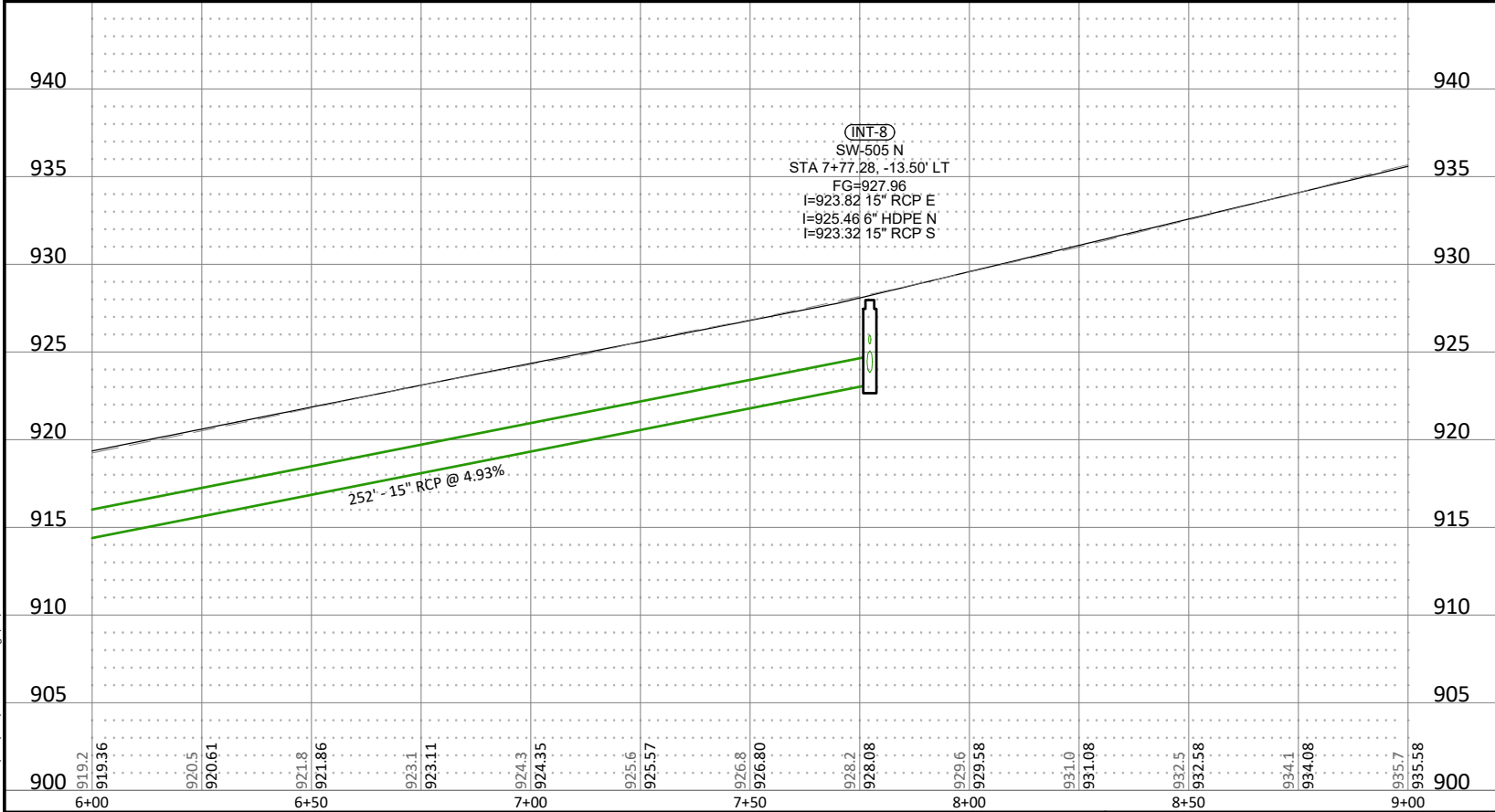
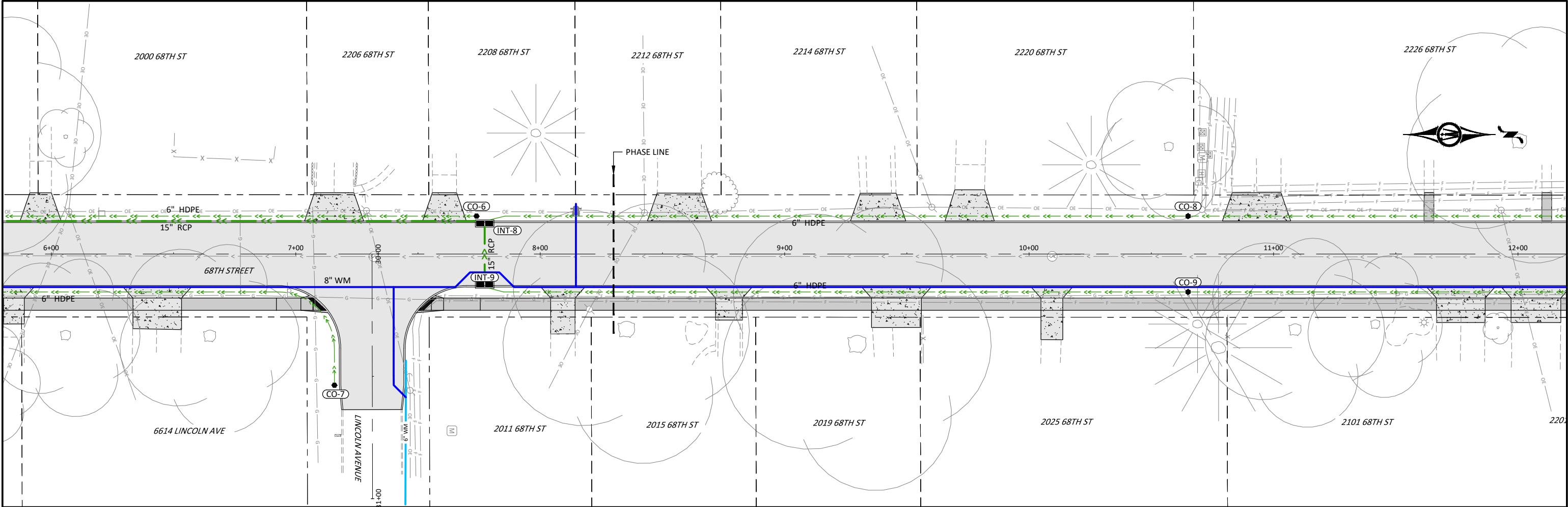
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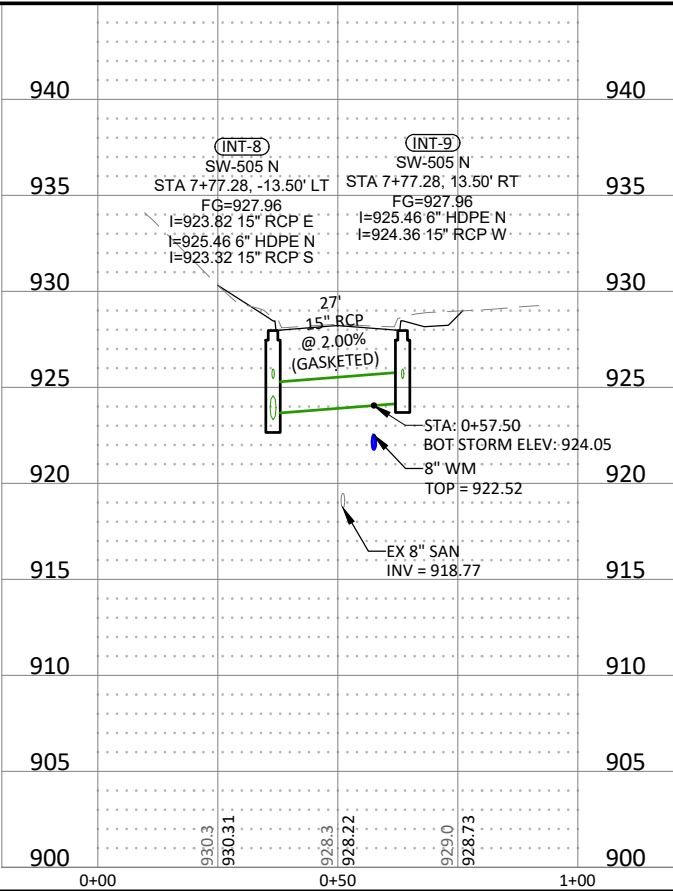
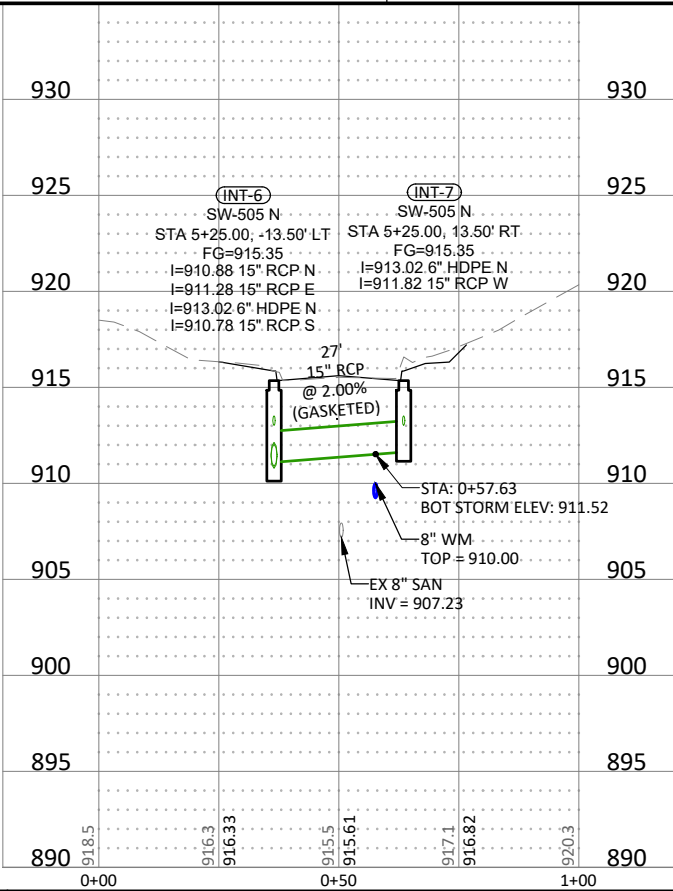
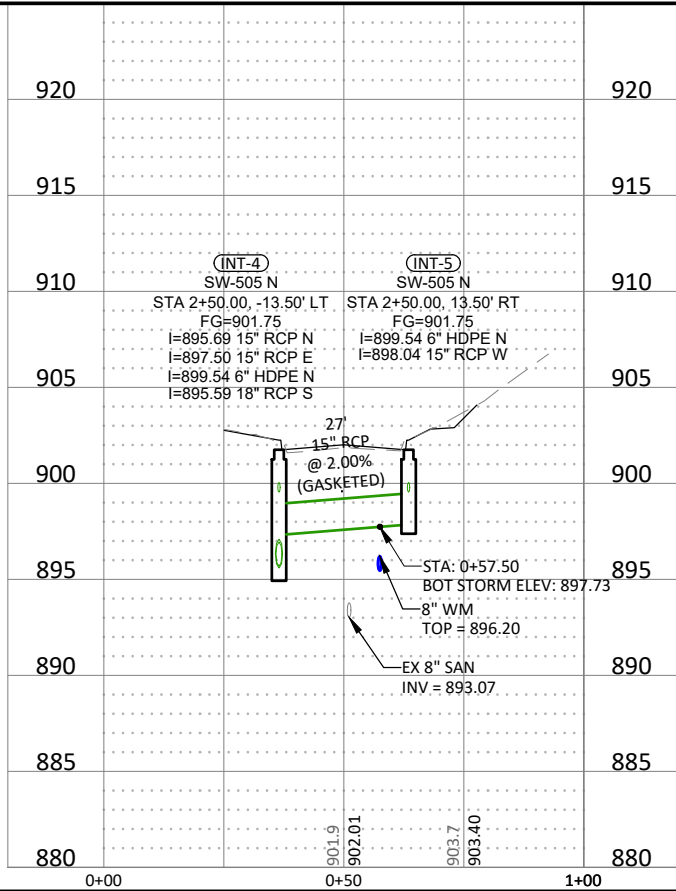
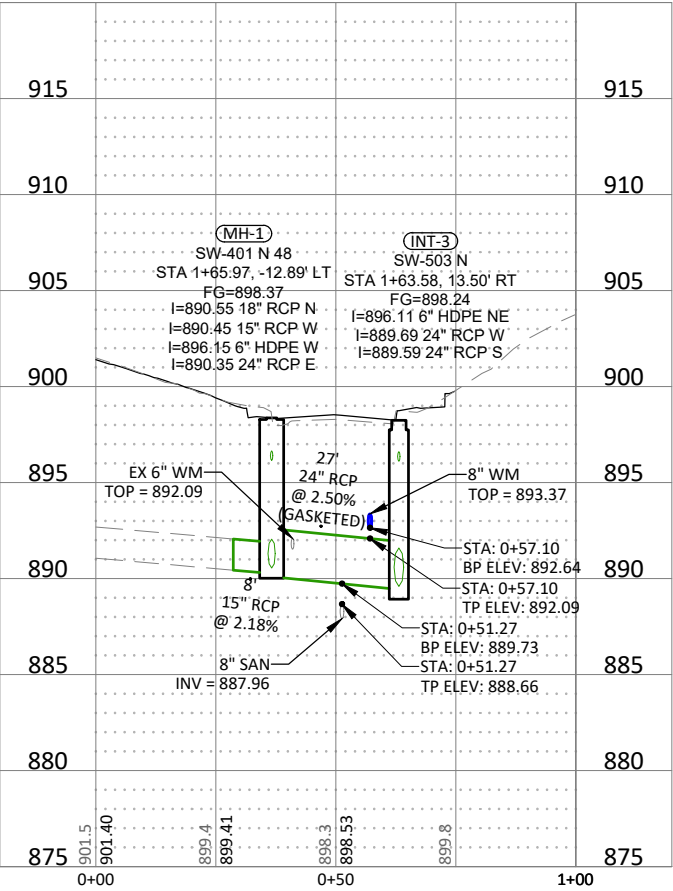
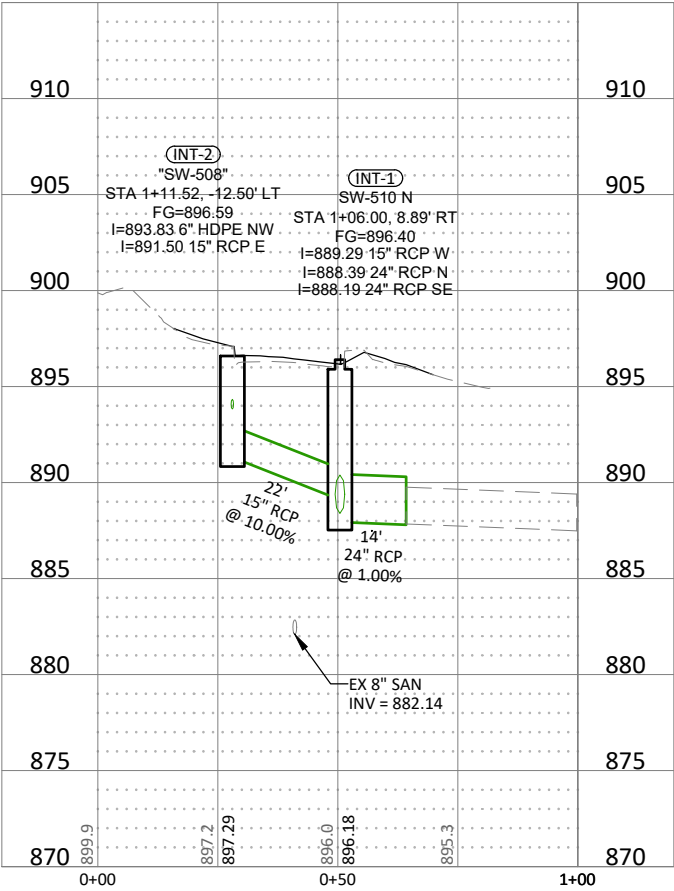
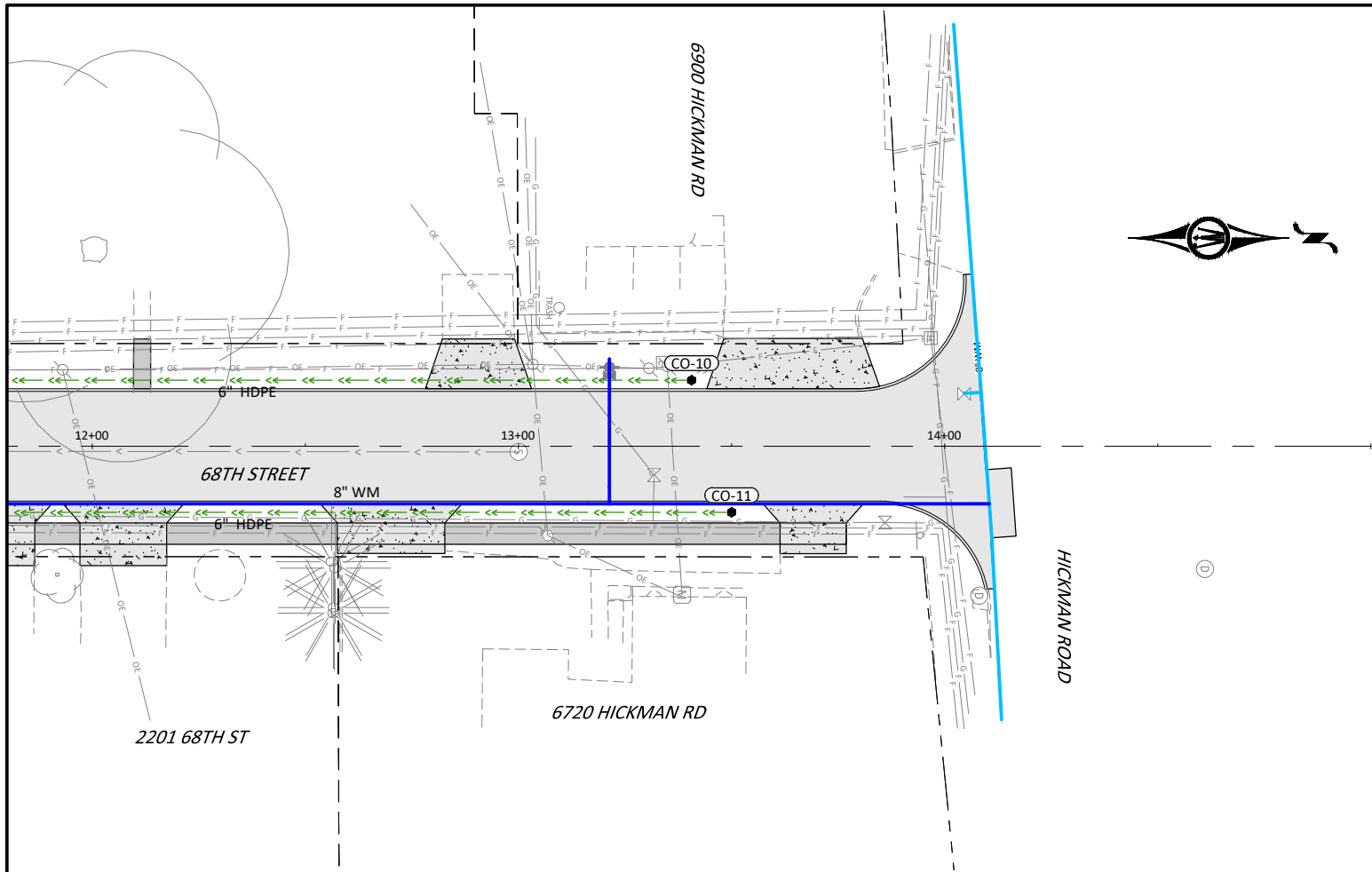
STORM SEWER PLAN & PROFILE

SHEET

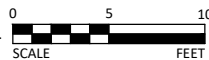
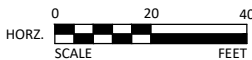
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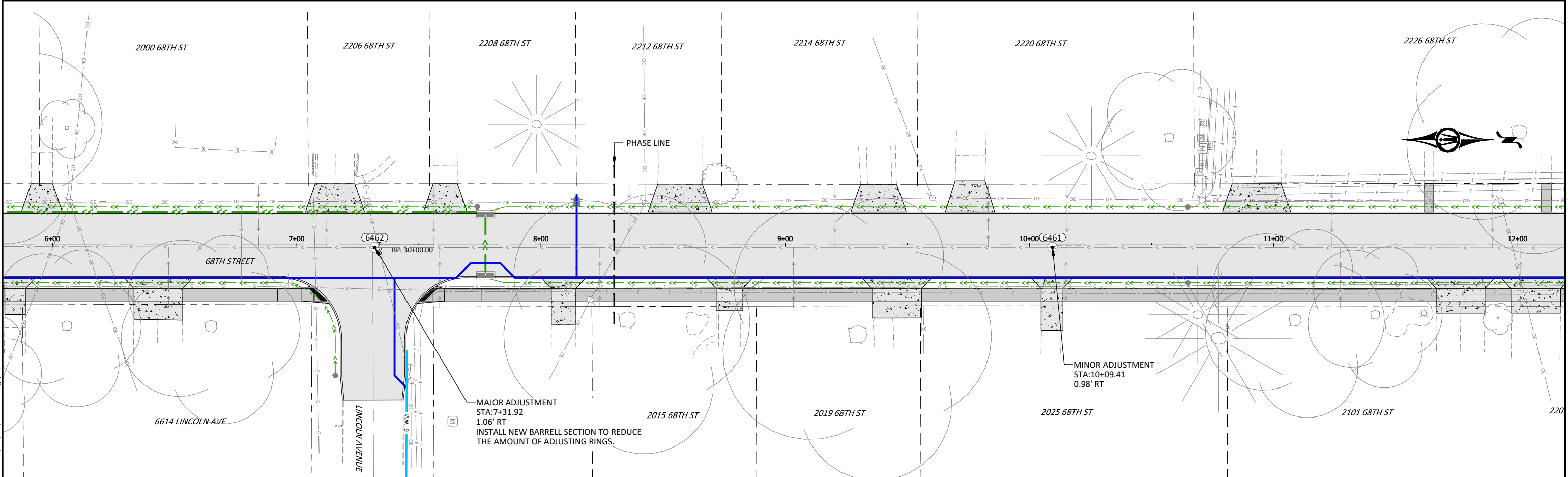
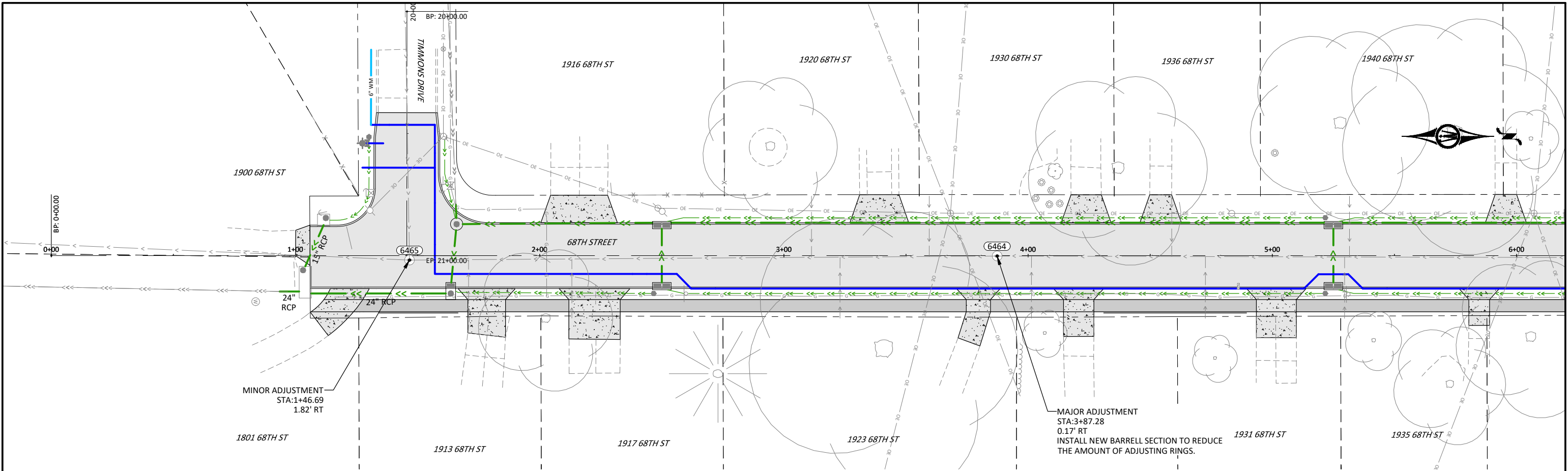


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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET RECONSTRUCTION
STORM SEWER CROSS RUN PROFILES

SHEET

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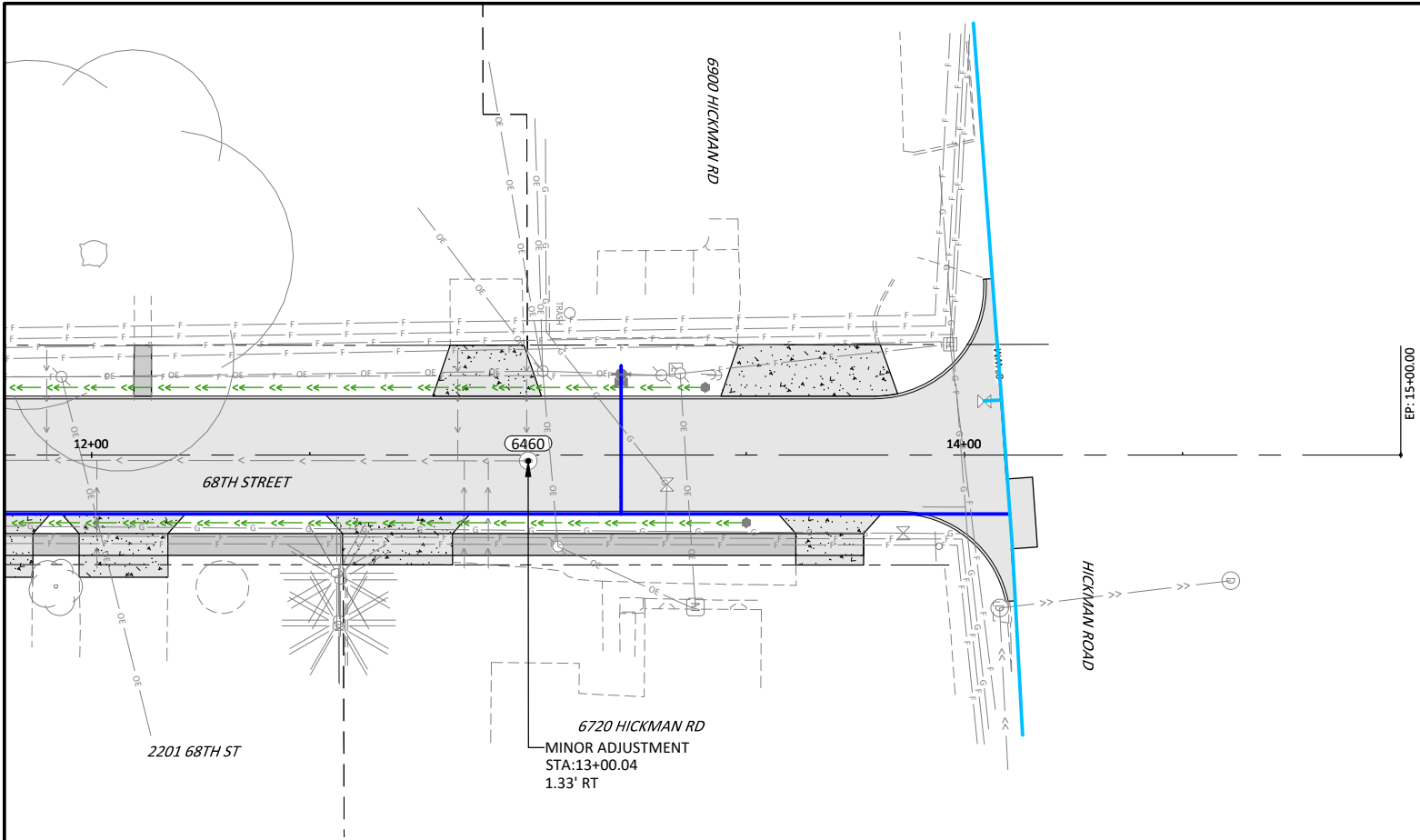
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CITY OF WINDSOR HEIGHTS, IOWA
 68TH STREET RECONSTRUCTION
 SANITARY SEWER PLAN

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

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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 2 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

10.1.3. TAPPING SLEEVE AND VALVES

10.2. CONTRACTOR TO SCHEDULE ALL TAPPING SLEEVE AND VALVES WITH DMWW CUSTOMER SERVICE BY CALLING DMWW CUSTOMER SERVICE 72 HOURS PRIOR TO TAP AT 515-283-8700.

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.

10.4. CONTRACTOR TO FIELD VERIFY TAP SIZE FOR EXISTING TAPS AT 2220 AND 2226 68TH STREET PRIOR TO SCHEDULING WATER SERVICE TRANSFERS AT THESE LOCATIONS.
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.

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
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 SERVICE SCHEDULE																
EXISTING SERVICE CONNECTION INFORMATION								NEW SERVICE CONNECTION INFORMATION (MAIN TO STOP BOX)								
SHEET	ADDRESS	STREET TAPPED	NAME	SERVICE SIZE	MATERIAL TYPE	SERVICE TYPE	CONNECTION TYPE	TAP LOCATION	STOP BOX LOCATION	MAIN SIZE	MAIN TYPE	MAIN DEPTH	TAP SIZE	SERVICE SIZE	MATERIAL TYPE	NOTES
MWM.03	1801 68th St	Likely 68th	Lorin Knapp		Suspect Lead								1"	1"		
MWM.03	1900 68th St.	Likely Timmons	Jason Housey		Suspect Lead								1"	1"		
MWM.03	1913 68th St.	68th	Dan Cataldi		Suspect Lead								1"	1"		
MWM.03	1916 68th St.	68th	Jennifer Ly		Suspect Lead								1"	1"		
MWM.03	1917 68th St.	68th	Raymond Steele		Suspect Lead								1"	1"		
MWM.03	1920 68th St.	68th	Roxane Foster		Suspect Lead								1"	1"		
MWM.03	1923 68th St.	68th	Martha Woosley		Suspect Lead								1"	1"		
MWM.03	1927 68th St.	68th	Blake Jeffrey		Suspect Lead								1"	1"		
MWM.03	1930 68th St.	68th	Denise Elwood		Suspect Lead								1"	1"		
MWM.04	1931 68th St.	68th	Jean Currie		Unknown								1"	1"		
MWM.04	1935 68th St.	68th	Laura Stahler		Suspect Lead								1"	1"		
MWM.04	1936 68th St.	68th	Cung Thawng		Unknown								1"	1"		
MWM.04	1940 68th St.	68th	Cameron Thede		Suspect Lead								1"	1"		
MWM.04	2000 68th St.	68th	Cari Witcher		Suspect Lead								1"	1"		
MWM.04	2011 68th St.	68th	Lian Thio		Unknown								1"	1"		
MWM.04	2015 68th St.	68th	Esther Htwe		Unknown								1"	1"		
MWM.05	2019 68th St.	68th	Jerry Manon		Unknown								1"	1"		
MWM.05	2025 68th St.	68th	Elizabeth Sodawasser		Unknown								1"	1"		
MWM.05	2101 68th St.	68th	V Sodawasser		Suspect Lead								1"	1"		
MWM.05	2201 68th St.	68th	V Sodawasser		Suspect Lead								1"	1"		
MWM.05	2206 68th St.	68th	Jeffrey Aten		Suspect Lead								1"	1"		
MWM.05	2208 68th St.	68th	Levi Castle		Suspect Lead								1"	1"		
MWM.04	2212 68th St.	68th	Patrick McFall		Suspect Lead								1"	1"		
MWM.05	2214 68th St.	68th	Chris Lockridge		Suspect Lead								1"	1"		
MWM.05	2220 68th St.	68th	Dustin Comer		Suspect Lead								1"	1"		
MWM.05	2226 68th St.	68th	Plantation Manor		Suspect Lead											Verify size in field.
MWM.05	2230 68th St.	Likely 68th	Plantation Manor		Suspect Lead											Verify with Property Manager where this service connects.
MWM.05	2234 68th St.	68th	Plantation Manor		Suspect Lead											Verify size in field.

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CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET RECONSTRUCTION

WATER MAIN GENERAL NOTES

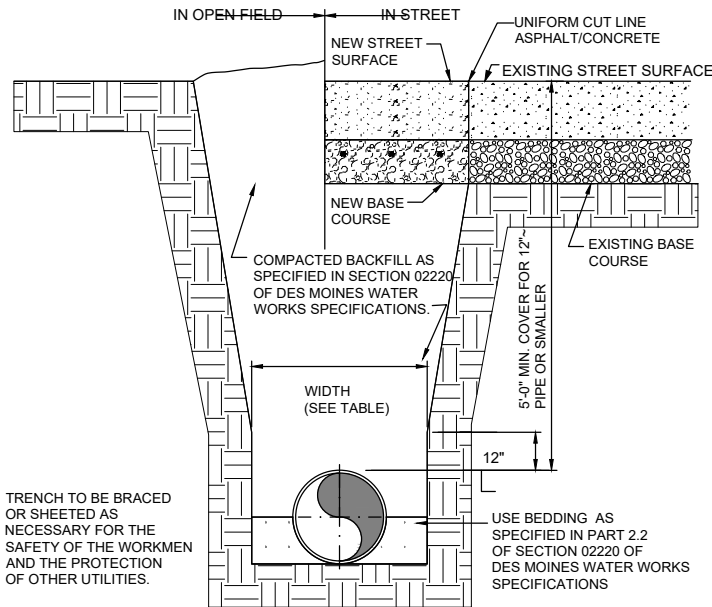
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\$DATES

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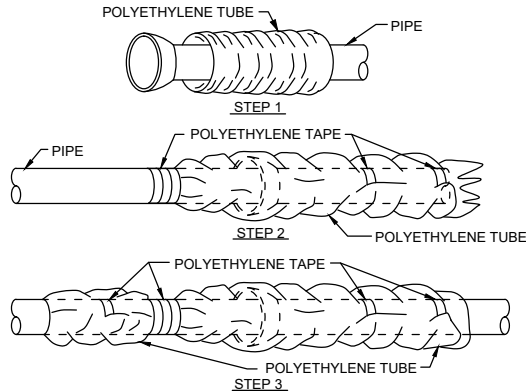


PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
12"	2'-0"	3'-0"
16"	2'-4"	3'-4"
20"	2'-8"	3'-8"

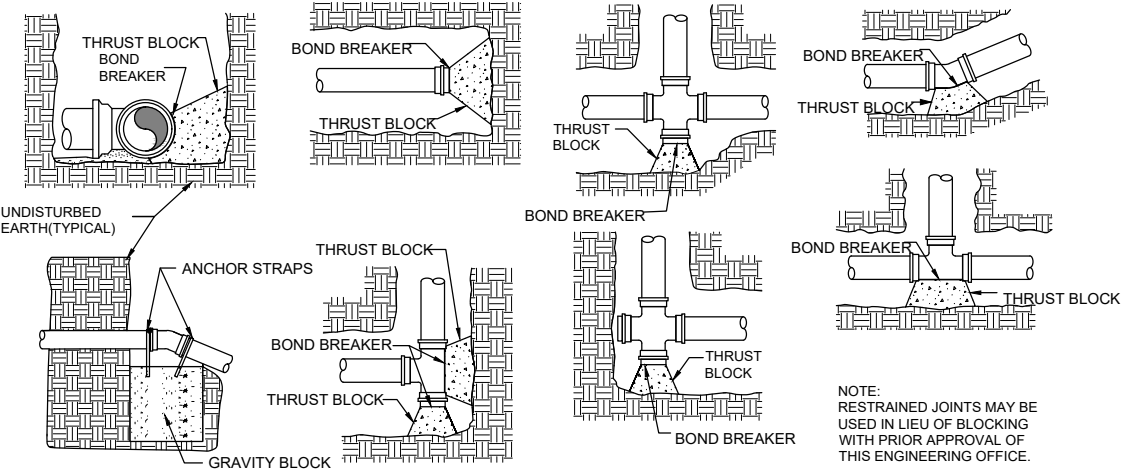
TYPICAL TRENCH SECTION
NOT TO SCALE

- STEP 1 - PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO THE TRENCH
- STEP 2 - PULL THE TUBE OVER THE LENGTH OF PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE
- STEP 3 - OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP AND TAPED IN PLACE.

NOTE: IRON PIPE FITTINGS, INCLUDING VALVES AND HYDRANTS SHALL BE WRAPPED WITH TWO LAYERS OF POLYETHYLENE MATERIAL. THE WRAPPING SHALL EXTEND AT LEAST 1' BEYOND THE FITTING JOINTS ONTO THE ADJOINING PIPE AND SHALL BE FASTENED TO THE PIPE WITH PLASTIC TAPE. TAPE SHALL BE USED AS NEEDED TO HOLD WRAP IN PLACE. EITHER POLYETHYLENE SHEETS OR SLIT TUBING MAY BE USED.



POLYETHYLENE WRAP FIELD INSTALLATION DETAIL
NOT TO SCALE



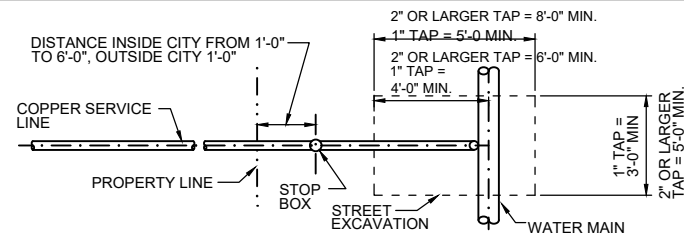
SIZE OF PIPE	VOLUME IN CUBIC YARDS			
	11 1/4"	22.5"	45"	90"
4"	0.24	0.65	1.35	2.03
6"	0.24	0.65	1.35	2.03
8"	0.45	1.14	2.35	3.49
12"	0.98	2.44	4.99	7.38
16"	1.73	4.27	8.70	12.84
20"	2.66	6.56	13.36	19.70
24"	3.70	9.25	18.94	27.96
30"	5.73	14.26	29.15	42.99

VOLUME OF GRAVITY BLOCK
NOT TO SCALE

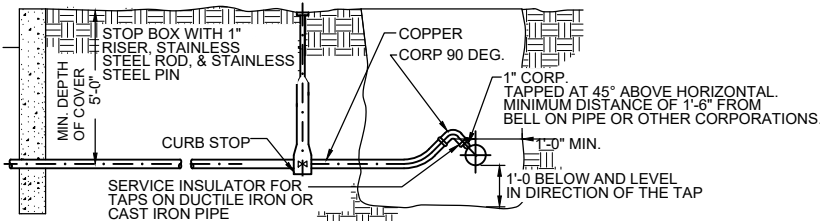
SIZE OF PIPE	MINIMUM BEARING SURFACE (IN SQ. FT.)				TEE OR DEAD END
	11 1/4"	22.5"	45"	90"	
6"	1	2	4	8	6
8"	2	4	8	14	10
12"	4	8	16	29	21
16"	7	14	28	51	36
20"	11	22	43	79	56
24"	16	31	61	112	79

STANDARD CONCRETE THRUST BLOCKS
NOT TO SCALE

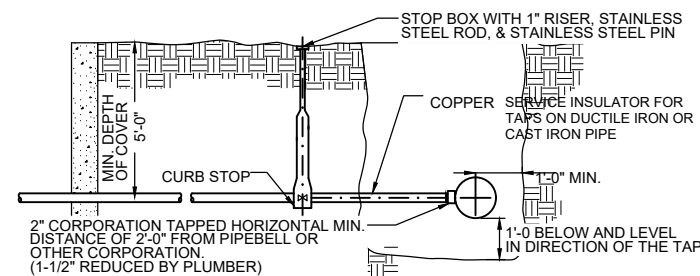
NOTE: RESTRAINED JOINTS MAY BE USED IN LIEU OF BLOCKING WITH PRIOR APPROVAL OF THIS ENGINEERING OFFICE.



1" & 2" SERVICE INSTALLATION PLAN



1" SERVICE INSTATION SECTION



2" SERVICE INSTALLATION SECTION
SERVICE INSTALLATION
NOT TO SCALE

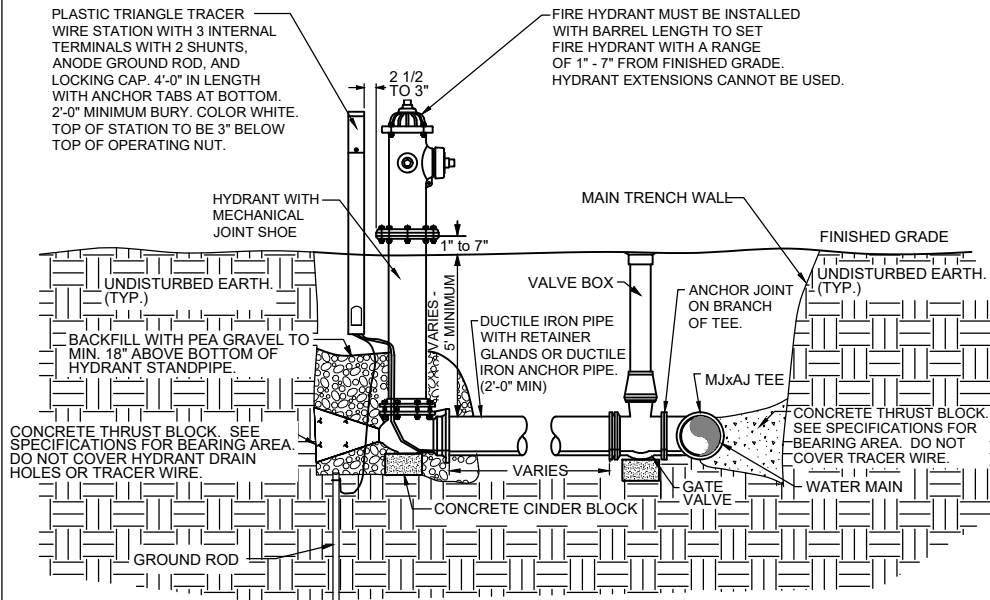
TRACER WIRE (SEE 505.6.6 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TO MIDPOINT OF EACH PIPE SECTION WITH PLASTIC TAPE. INSTALL ON ALL PIPE MATERIALS EXCLUDING TYPE K COPPER AND RED BRASS.

TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.

NOTE:

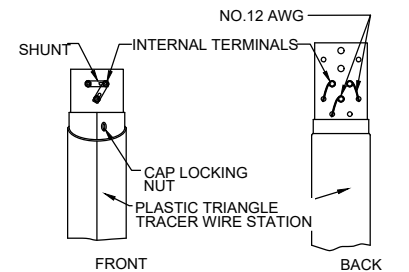
IRON PIPE, VALVE, FITTINGS AND HYDRANT (BURIED PORTION) TO BE WRAPPED WITH POLYETHYLENE ENCASUREMENT MATERIAL PER DES MOINES WATER WORKS STANDARDS.

TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.



STANDARD HYDRANT ON WATER MAINS 16" OR LESS

NOT TO SCALE



TRACER WIRE RECEPTACLE DETAIL
NOT TO SCALE

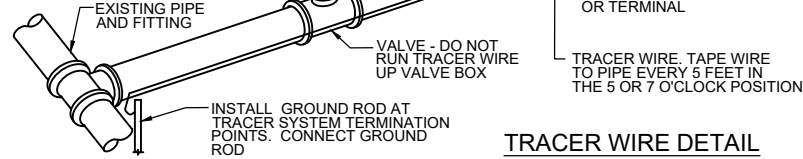
TRACER WIRE (SEE 505.6.6 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TO MIDPOINT OF EACH PIPE SECTION WITH PLASTIC TAPE. INSTALL ON ALL PIPE MATERIALS EXCLUDING TYPE K COPPER AND RED BRASS.

EXTEND TRACER WIRE UP HYDRANT BARREL TO TRACER WIRE STATION TO INTERNAL TERMINALS.

INSTALL GROUND ROD AT EACH TRACER WIRE RECEPTACLE

NOTE:

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



TRACER WIRE DETAIL

NOT TO SCALE

Des Moines
Water Works
Water You Can Trust for Life
ENGINEERING DEPARTMENT
Des Moines, Iowa

STANDARD DETAIL SHEET

UPDATED 1-06-23

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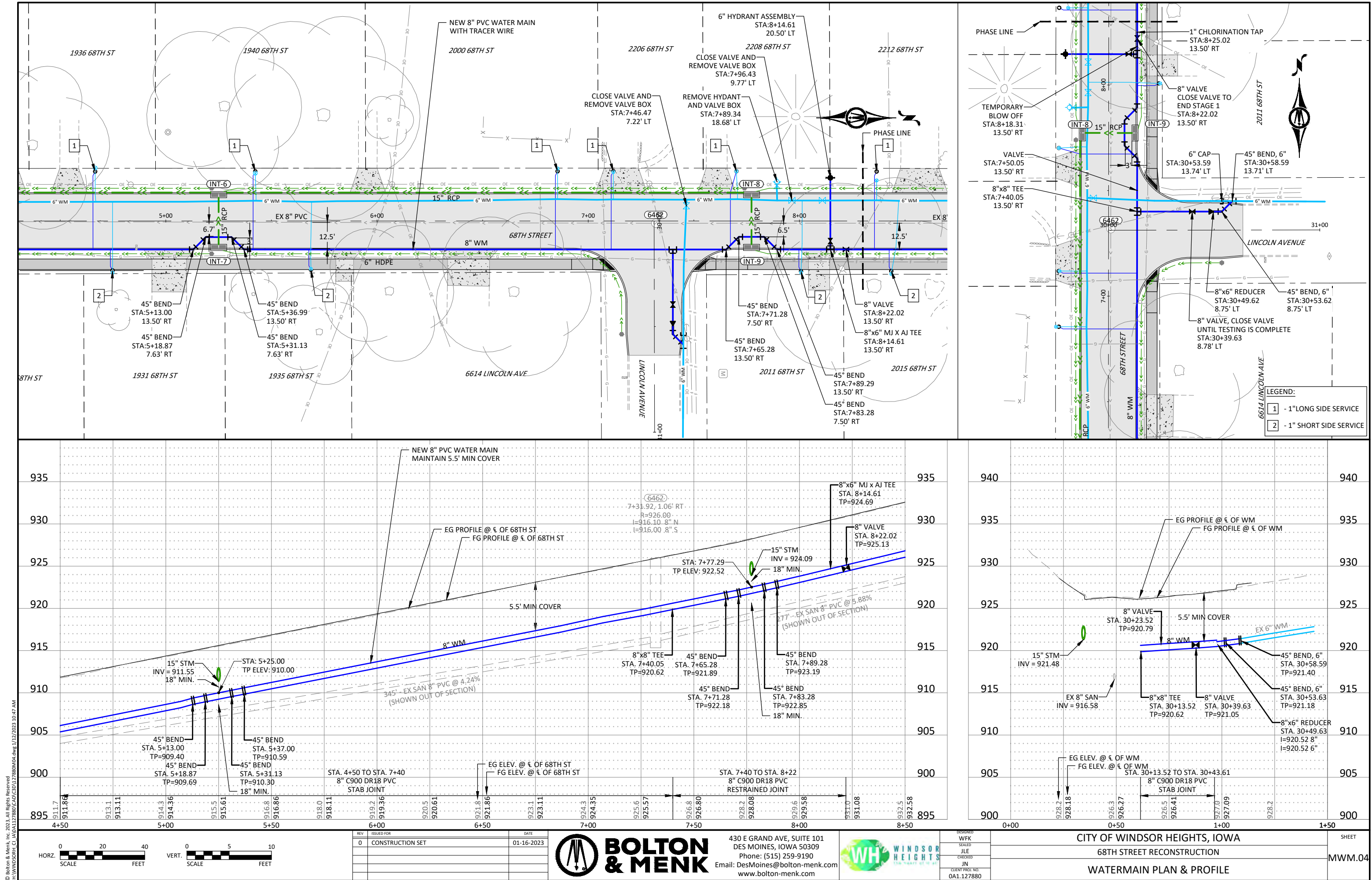
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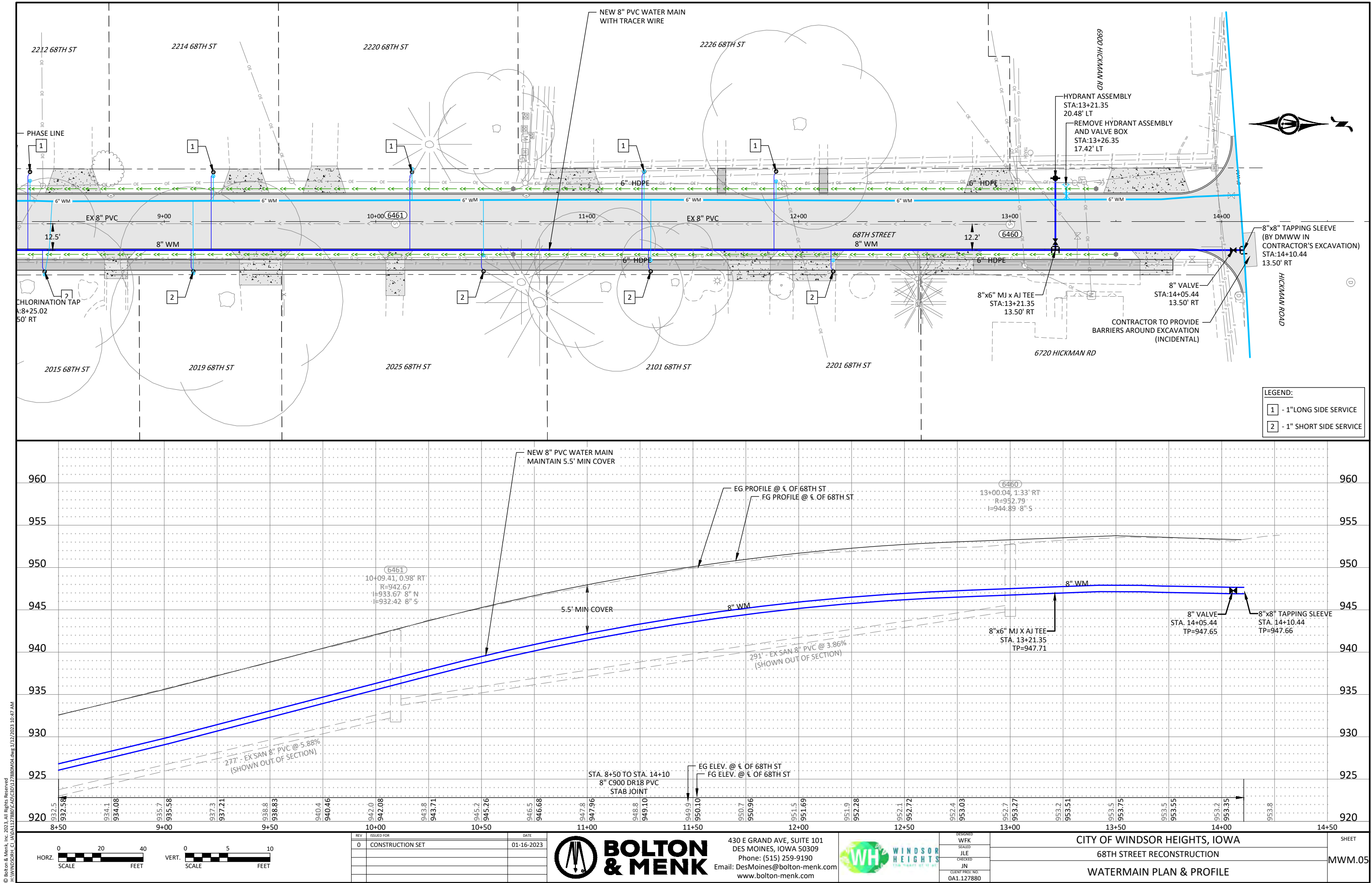
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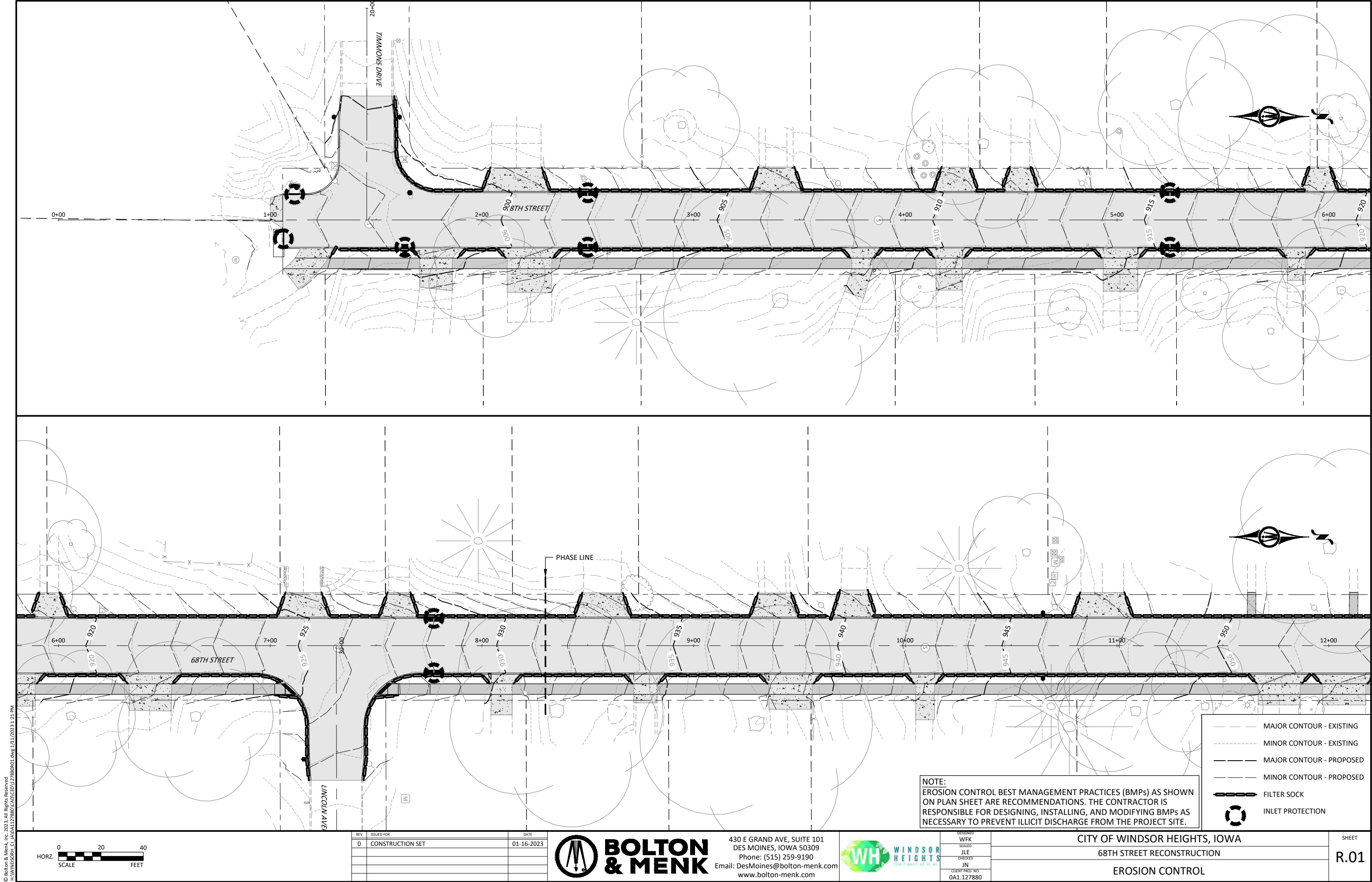
DES MOINES WATER WORKS DETAILS

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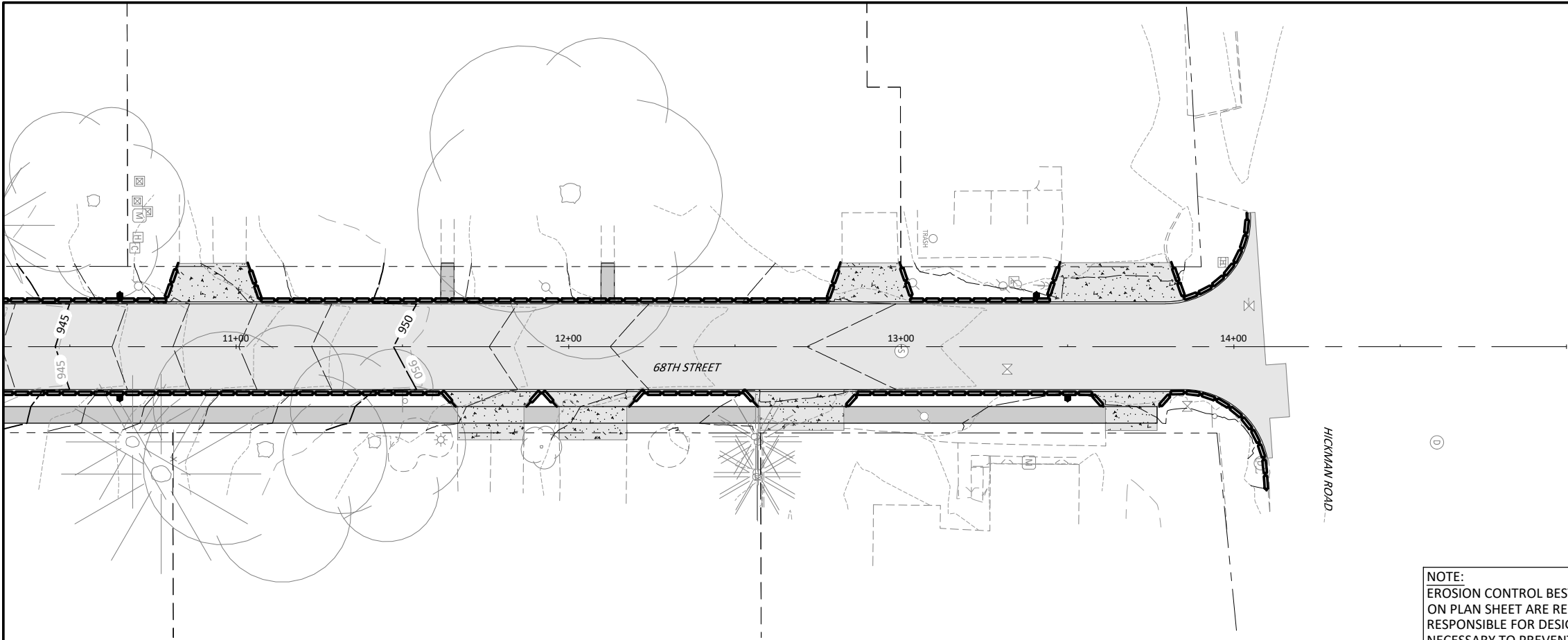
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EROSION CONTROL

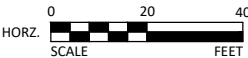
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NOTE:
EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPs) AS SHOWN ON PLAN SHEET ARE RECOMMENDATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, INSTALLING, AND MODIFYING BMPs AS NECESSARY TO PREVENT ILLICIT DISCHARGE FROM THE PROJECT SITE.

- MAJOR CONTOUR - EXISTING
- MINOR CONTOUR - EXISTING
- MAJOR CONTOUR - PROPOSED
- MINOR CONTOUR - PROPOSED
- FILTER SOCK
- INLET PROTECTION

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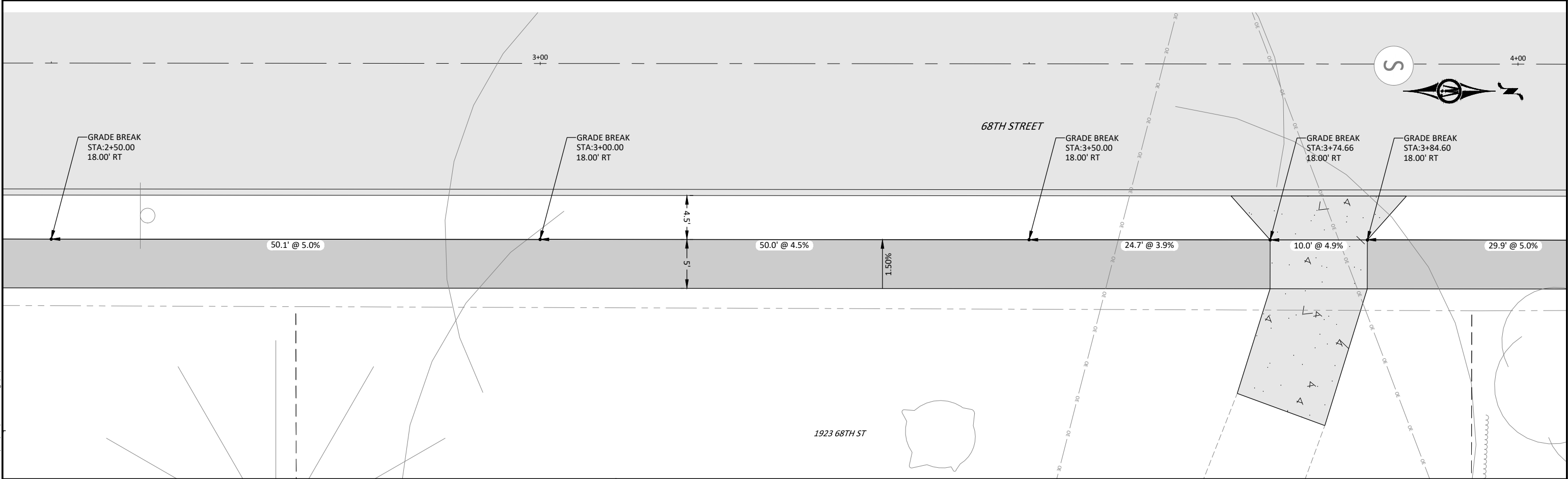
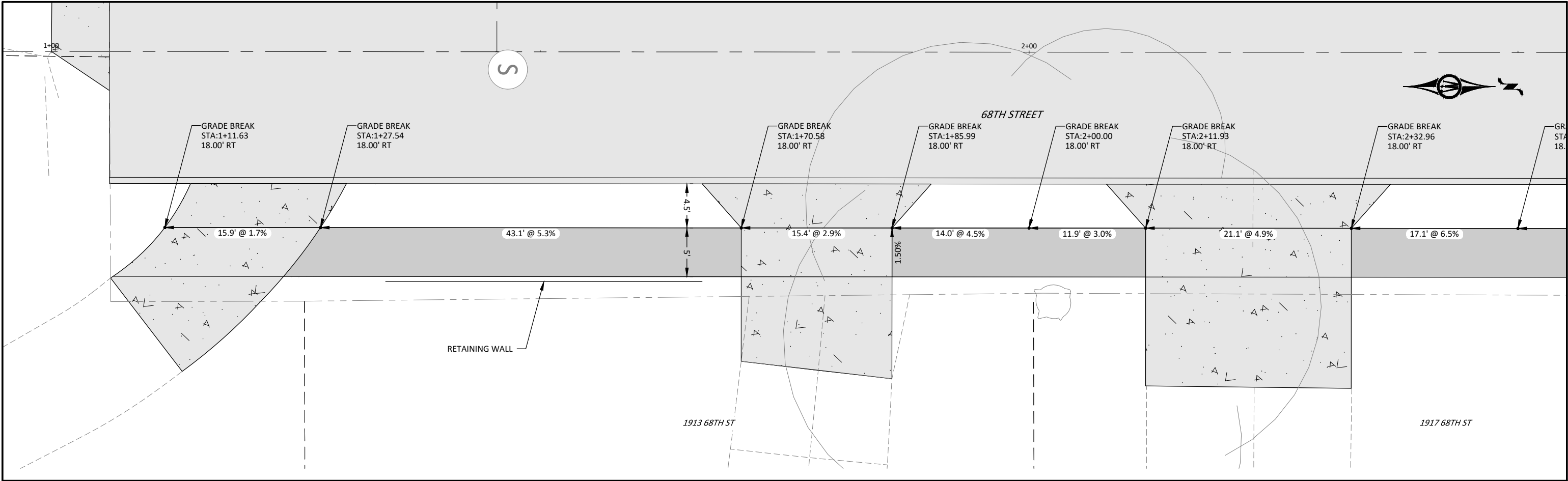
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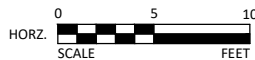
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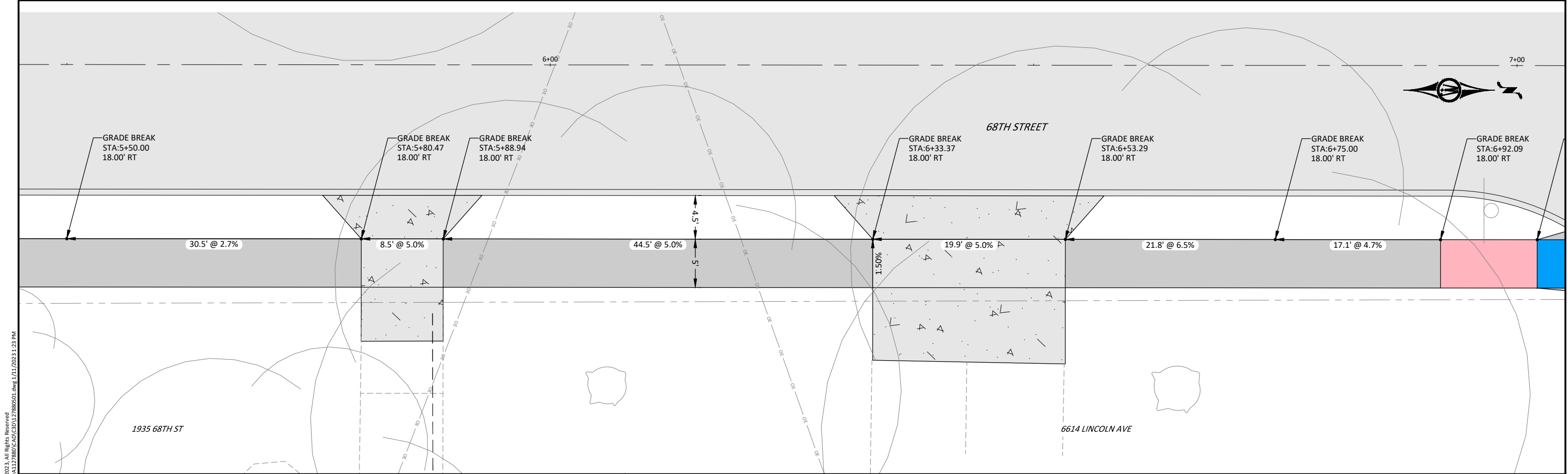
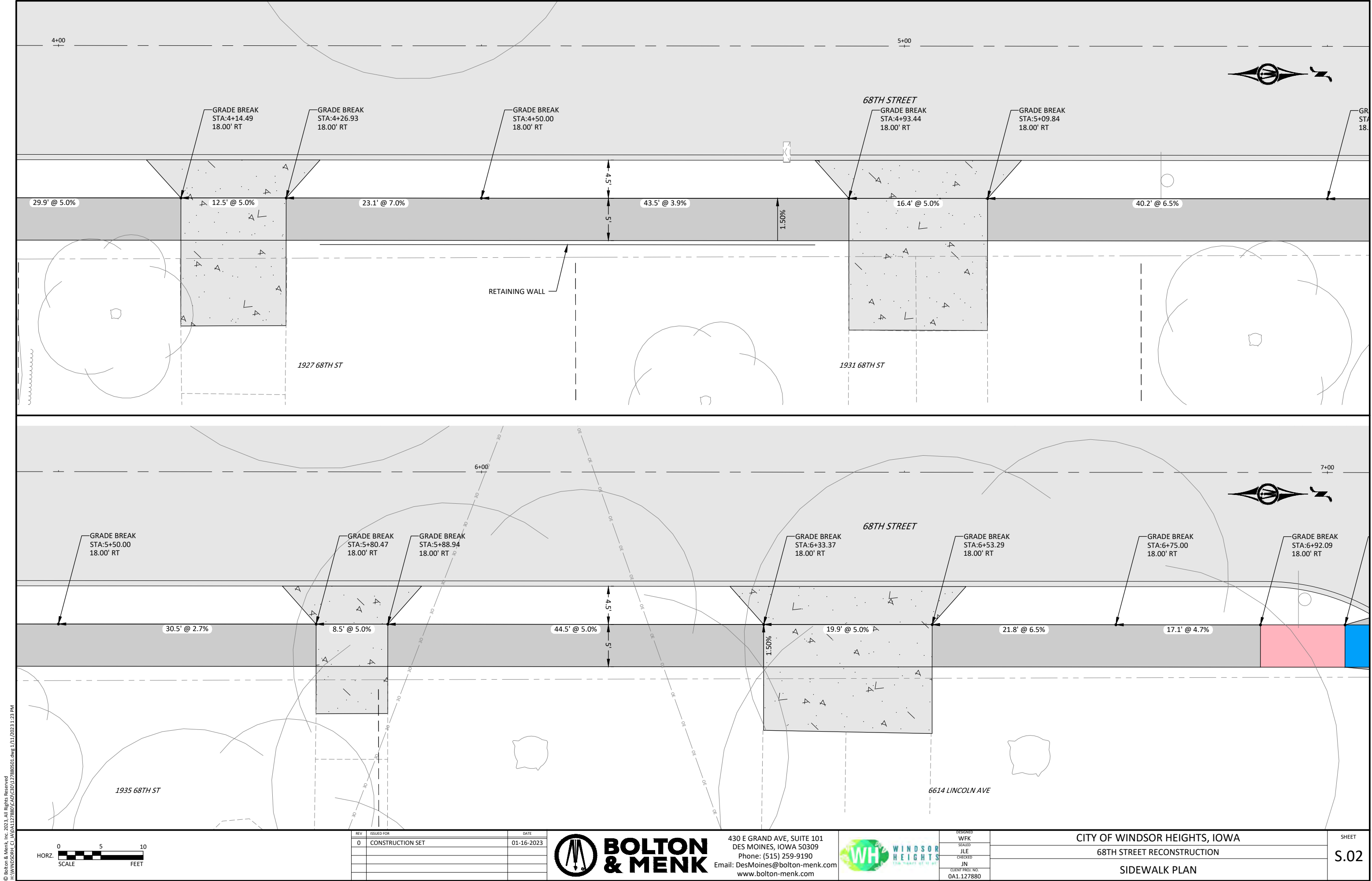


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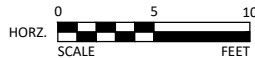
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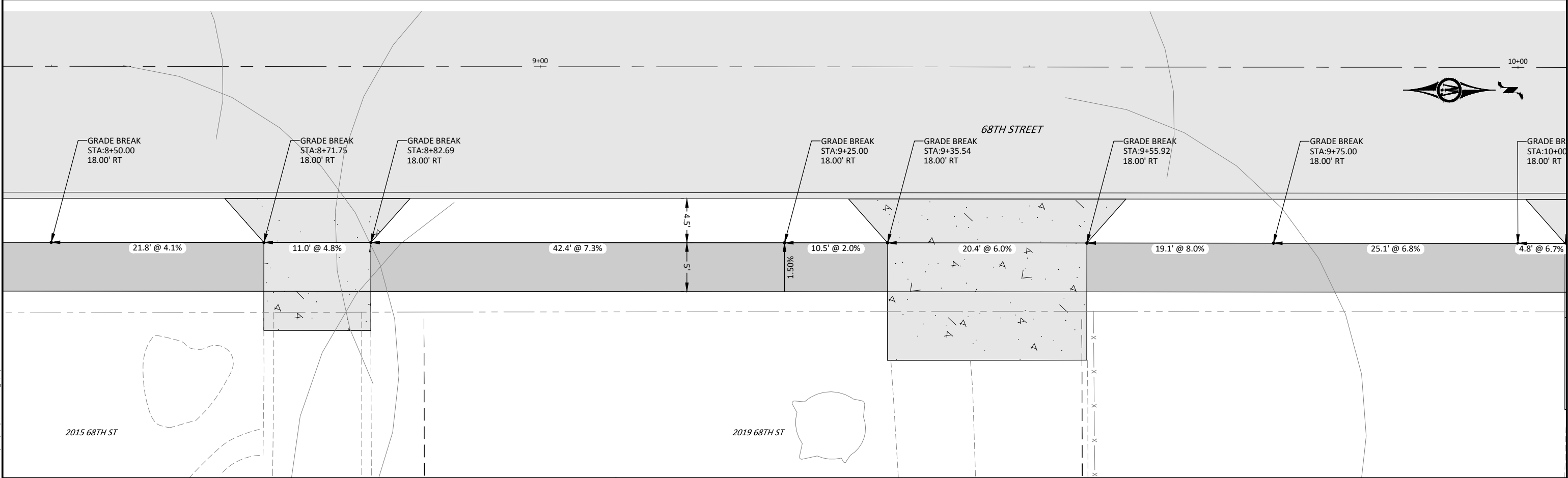
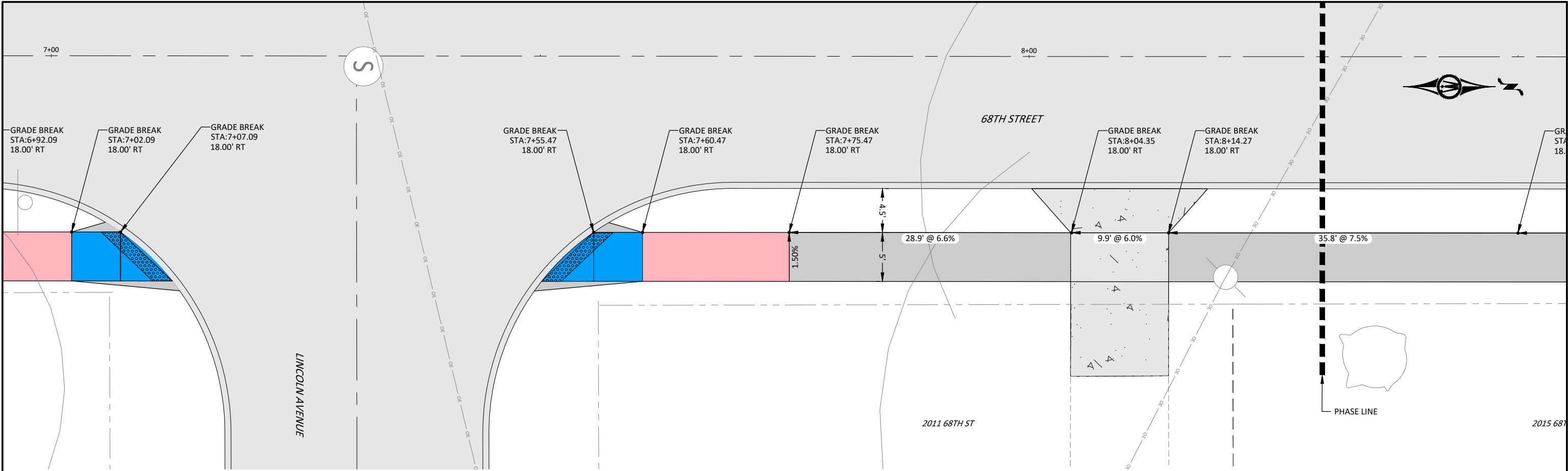
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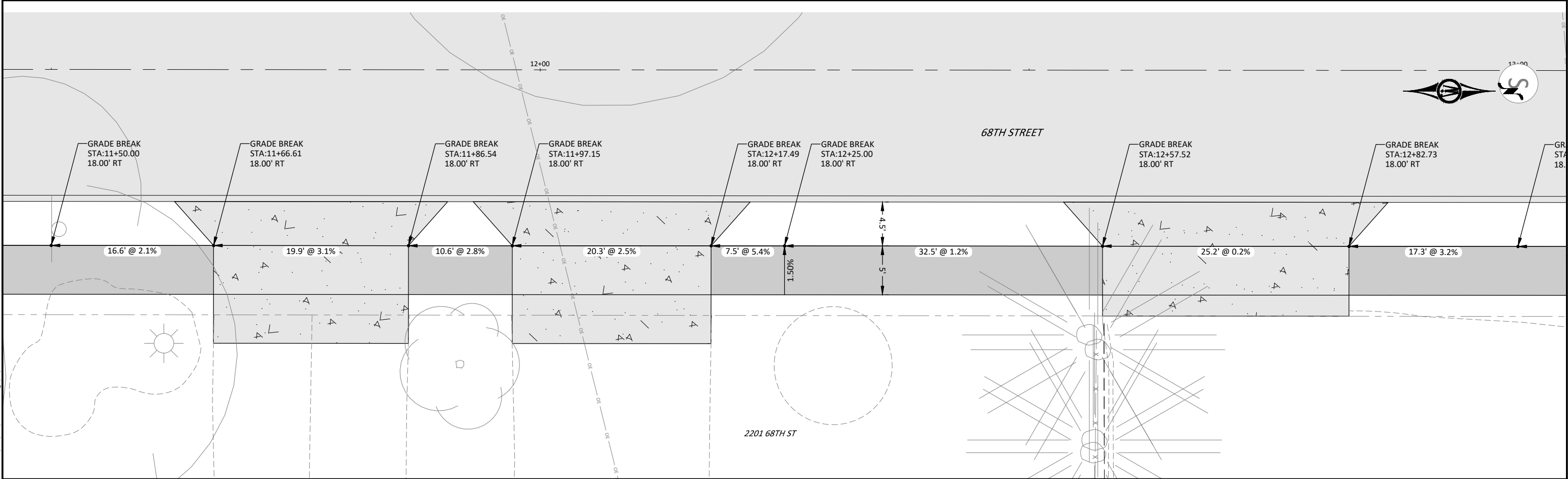
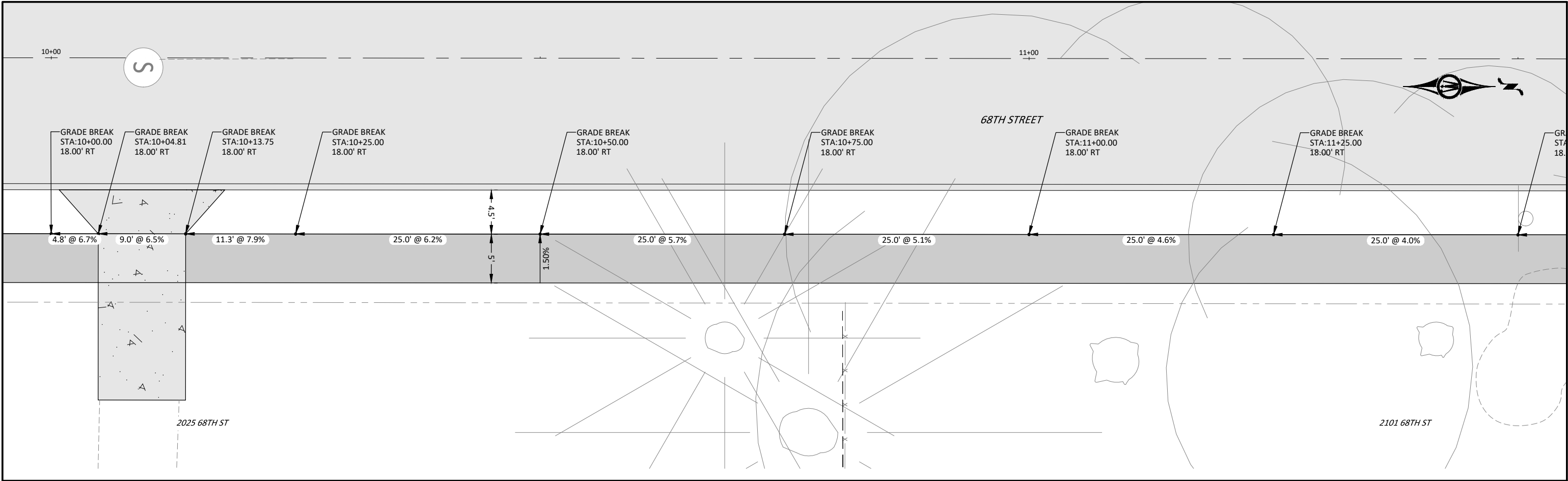


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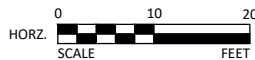
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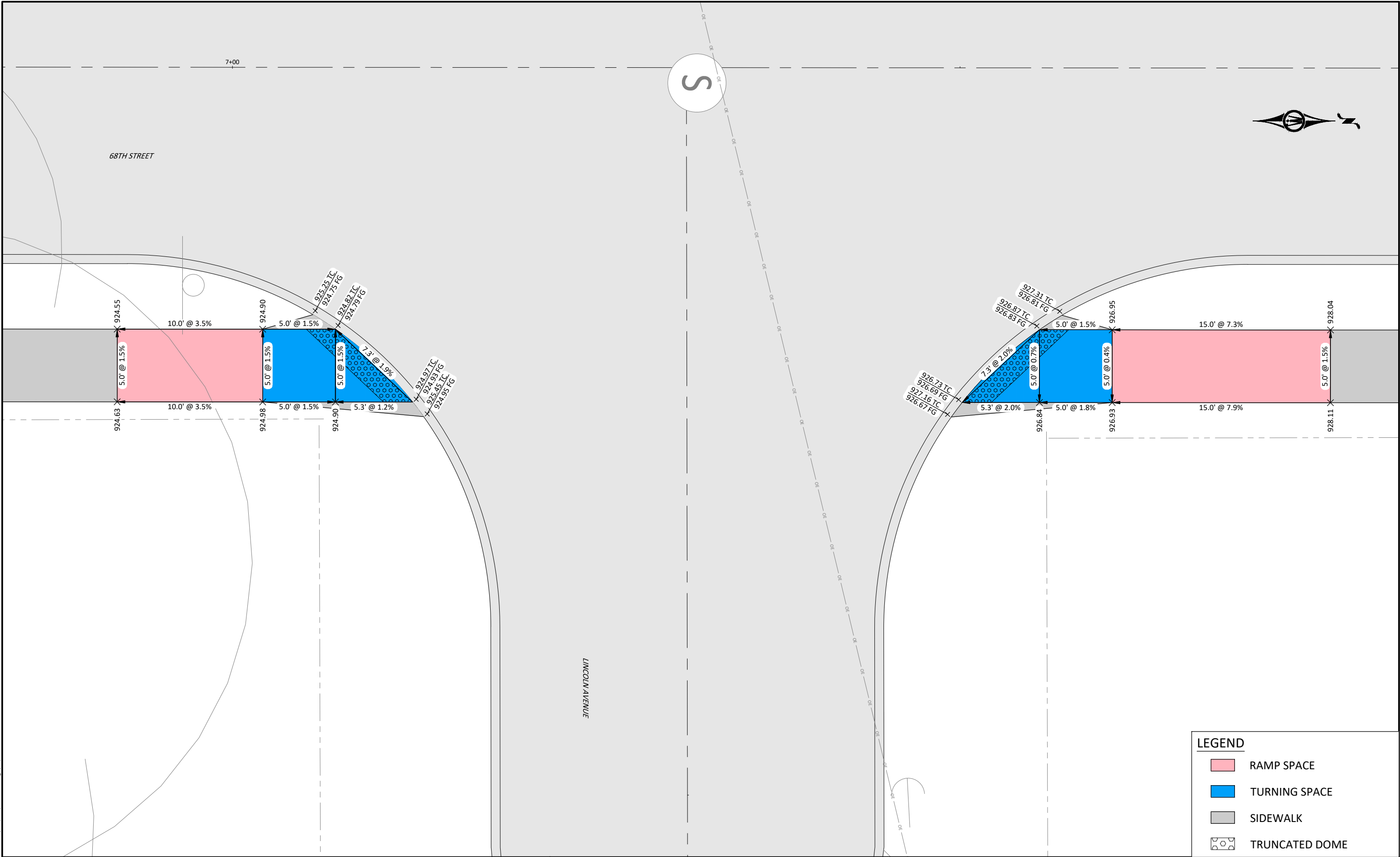


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LEGEND

- RAMP SPACE
- TURNING SPACE
- SIDEWALK
- TRUNCATED DOME

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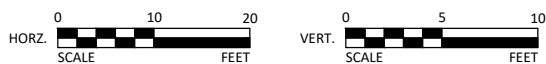
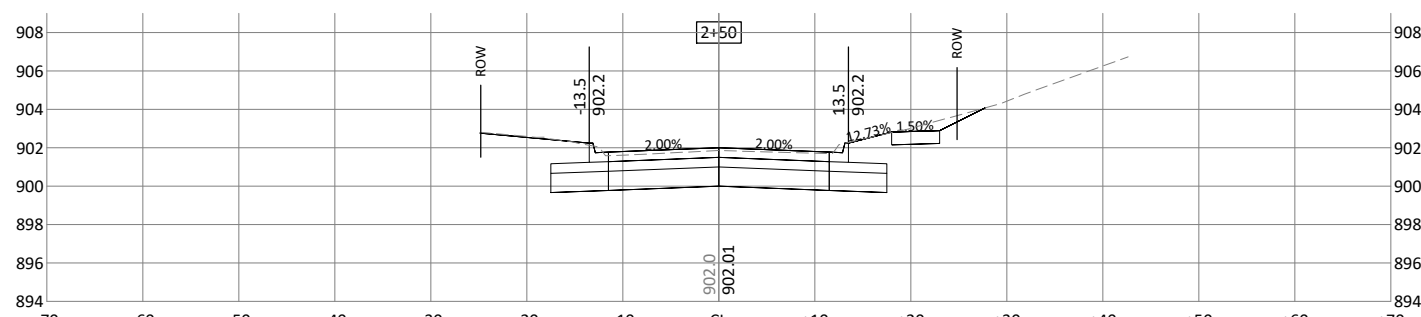
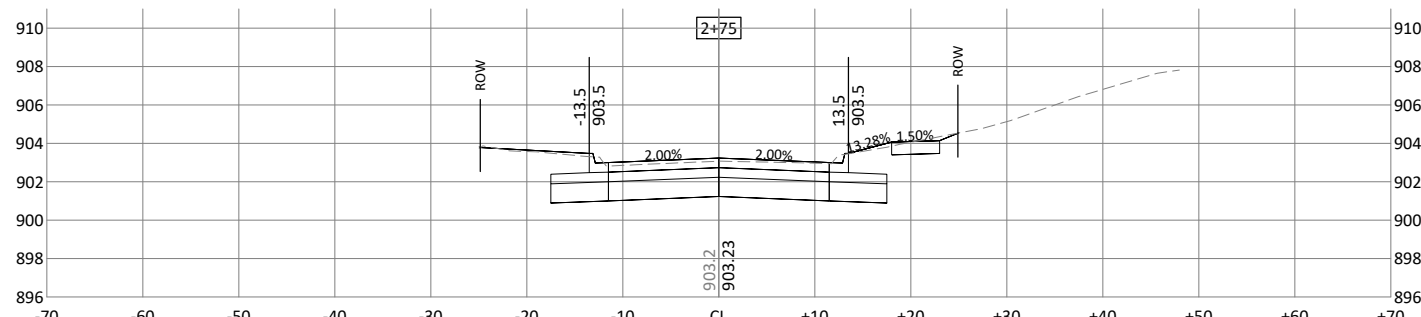
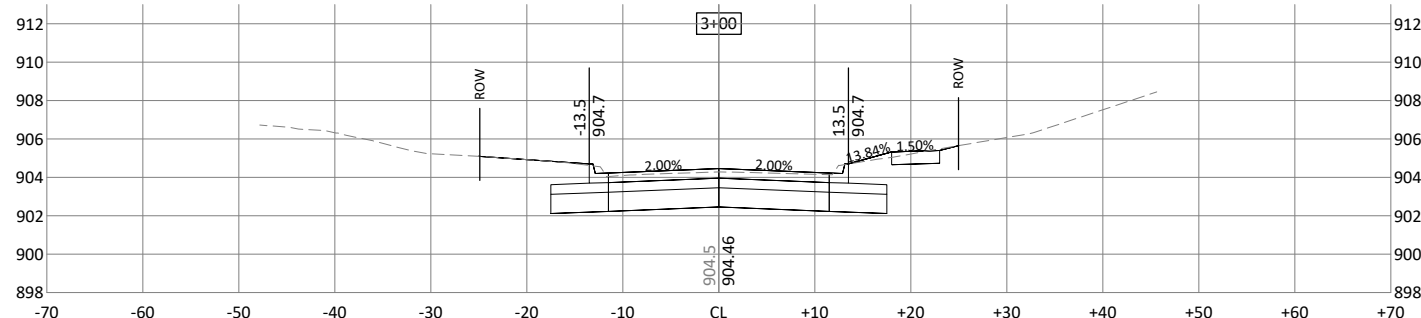
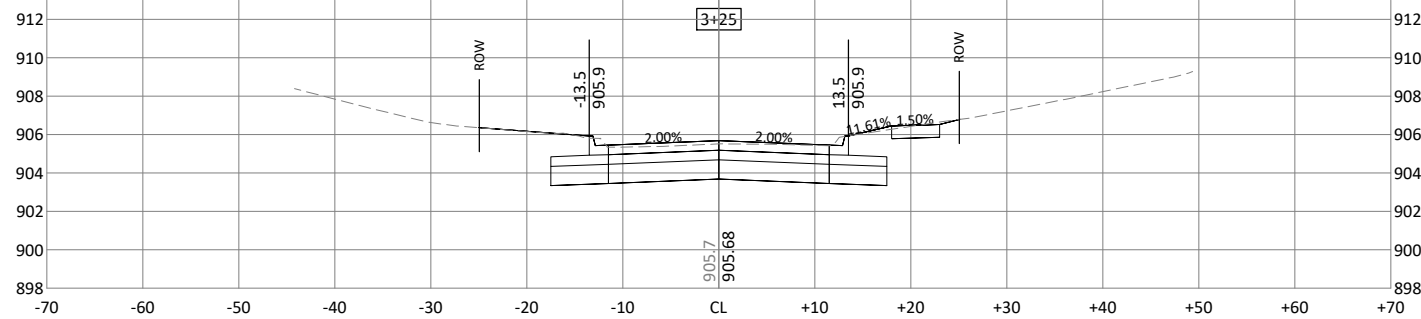
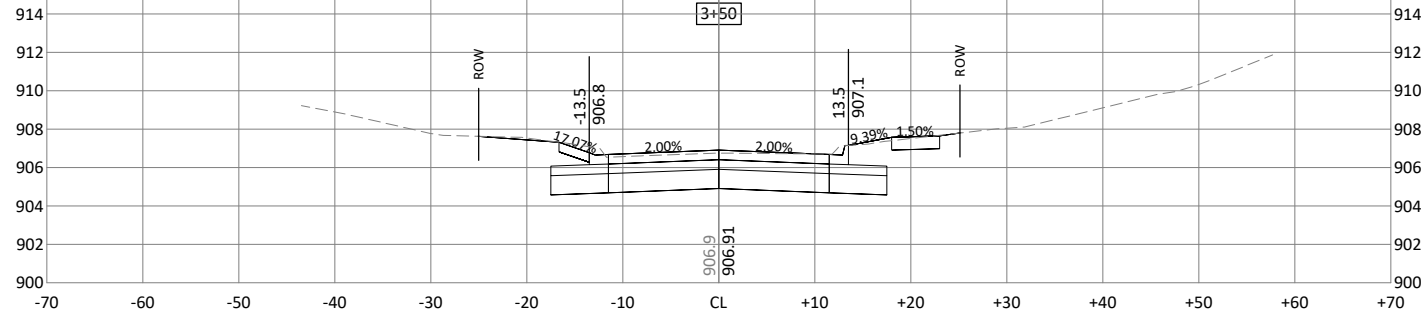
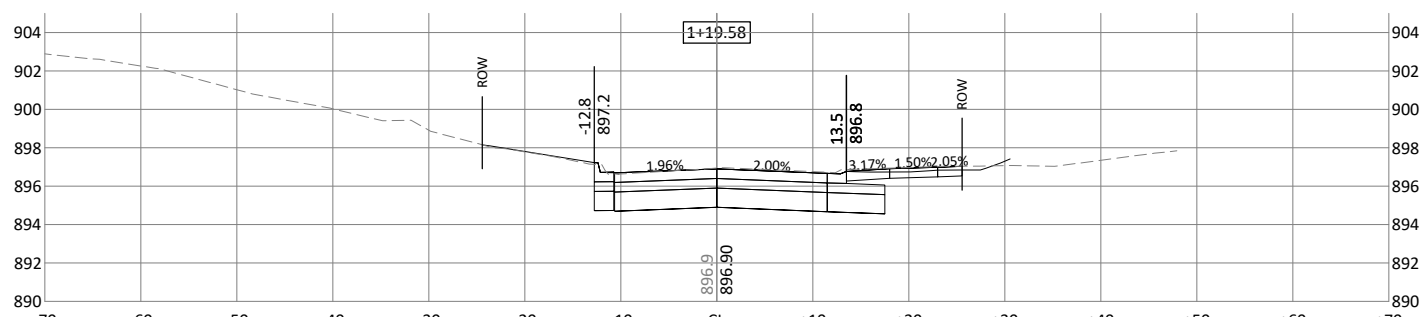
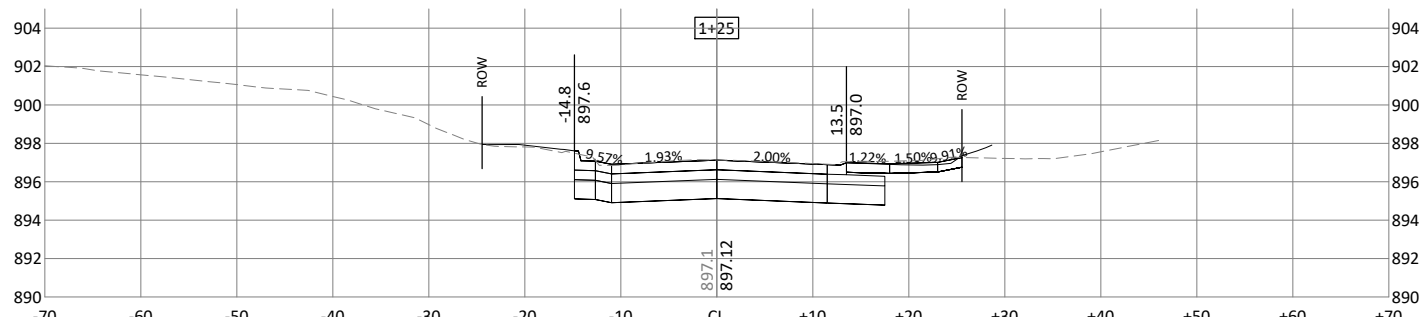
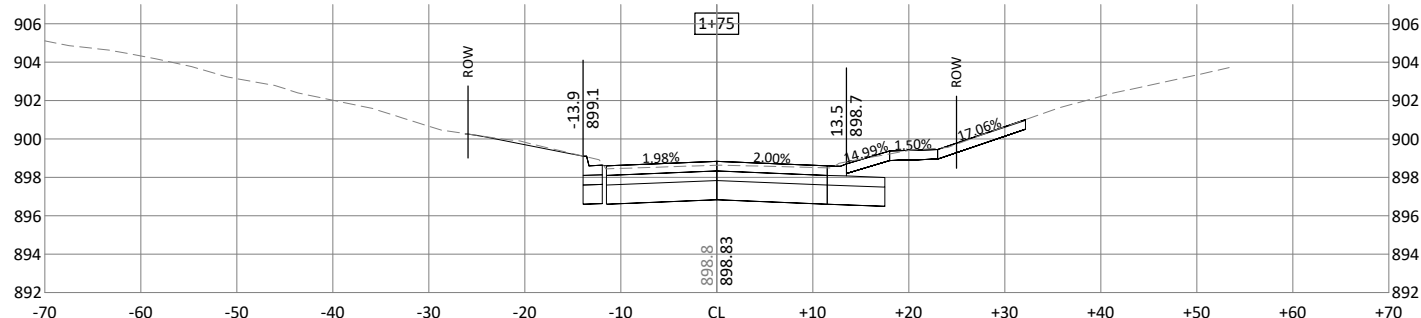
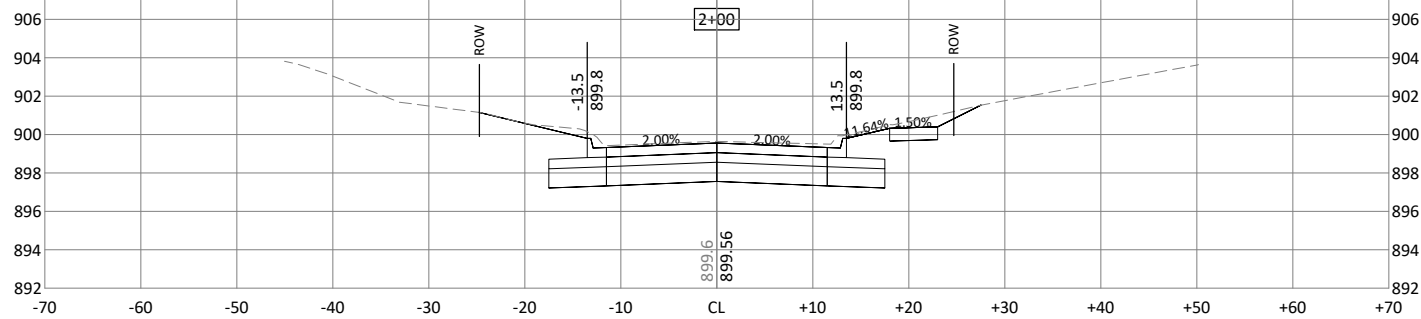
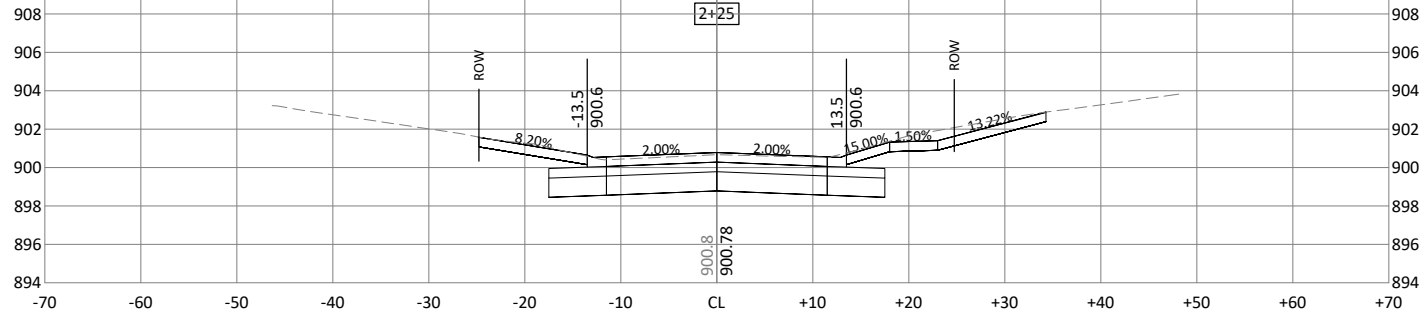


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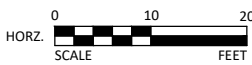
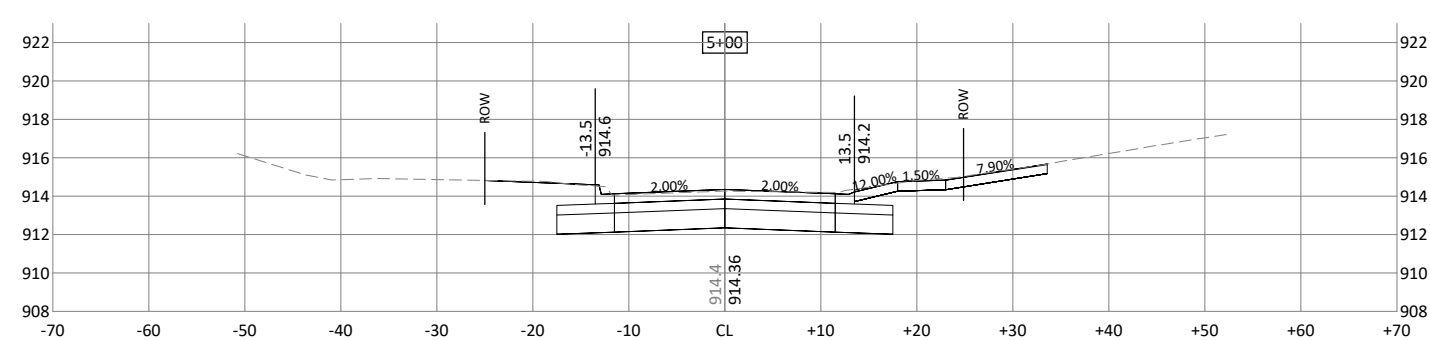
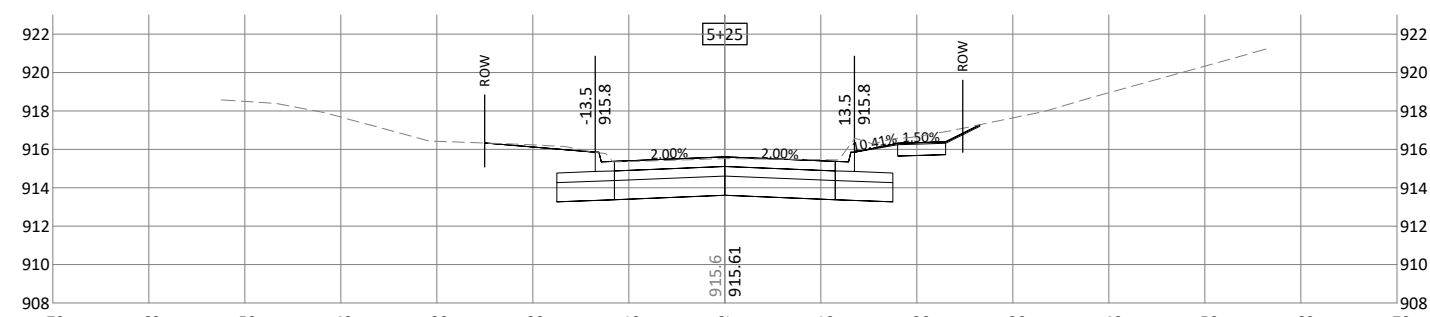
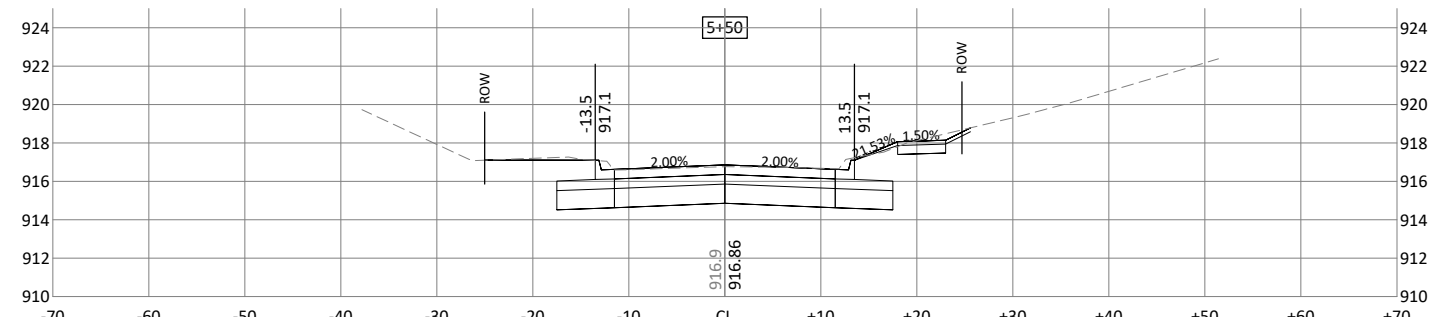
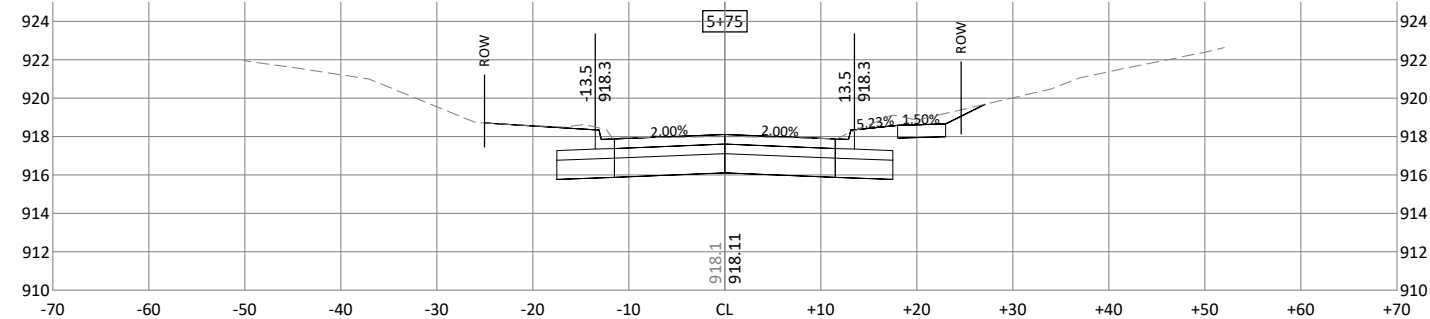
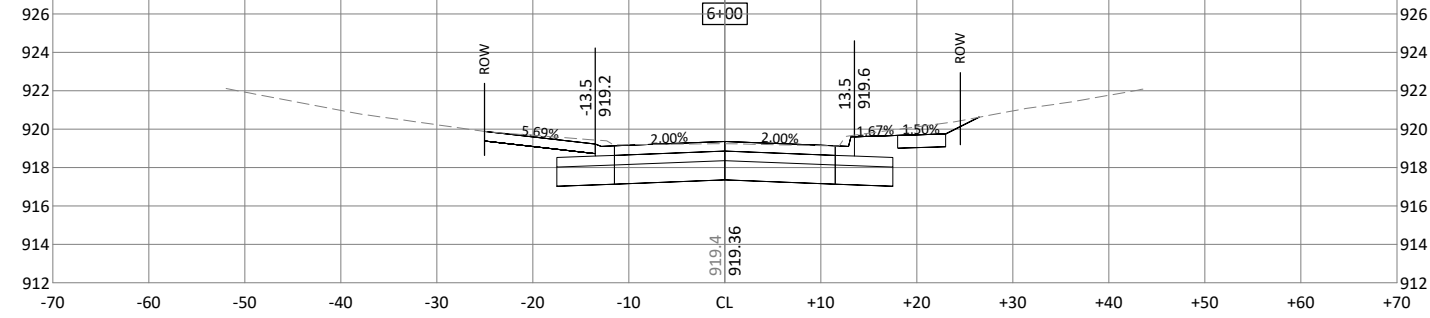
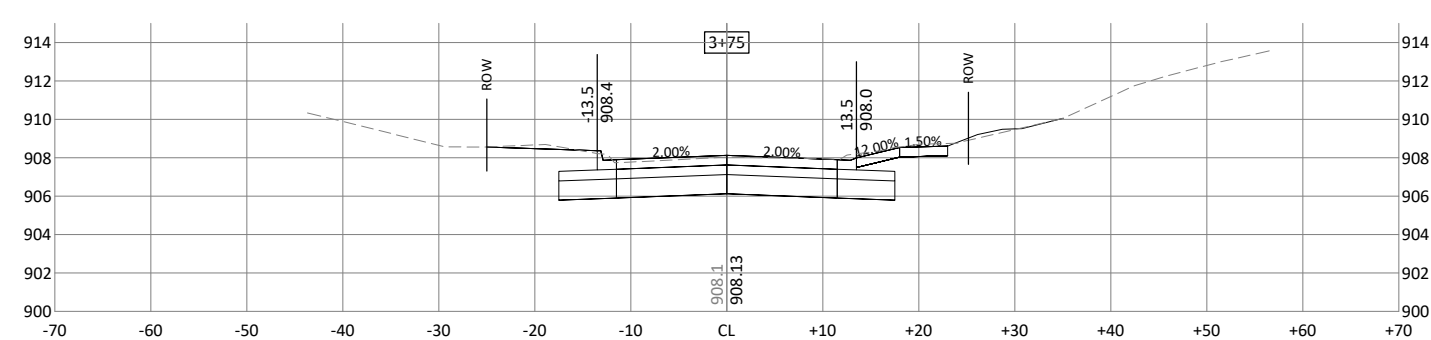
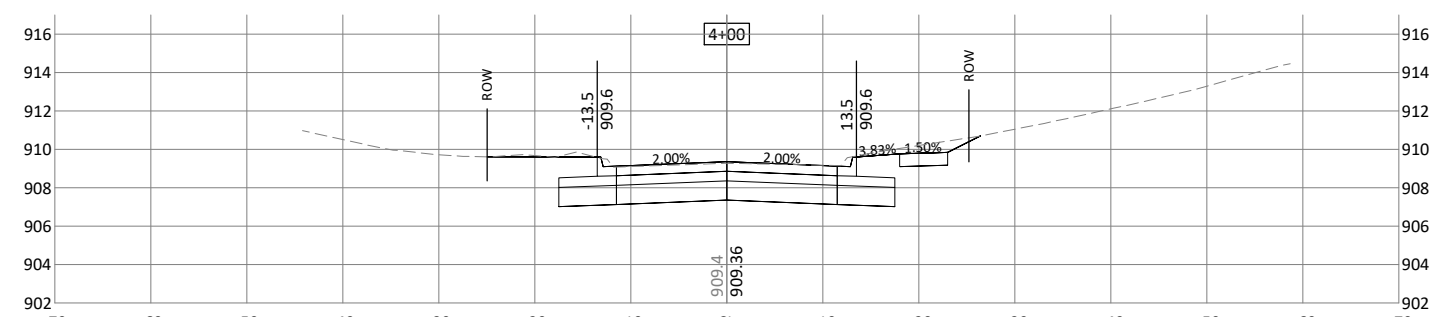
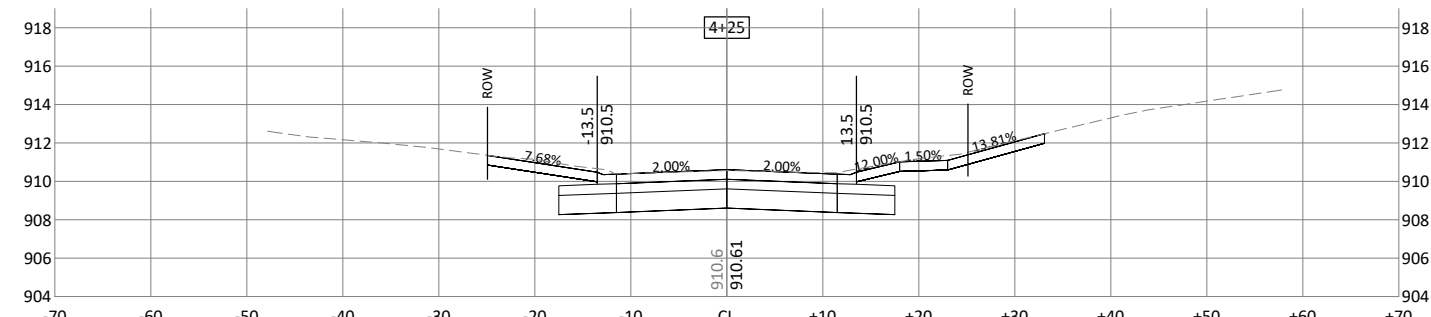
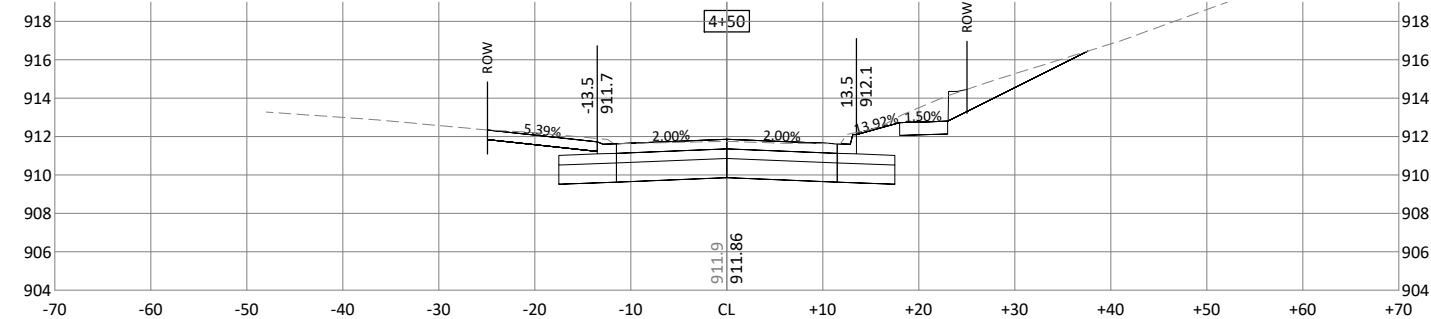
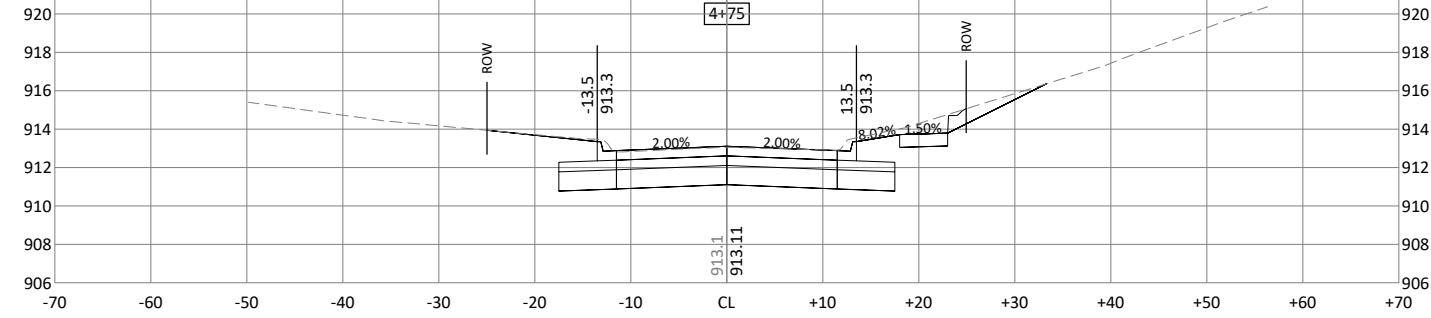
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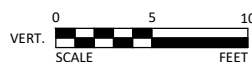
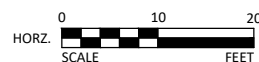
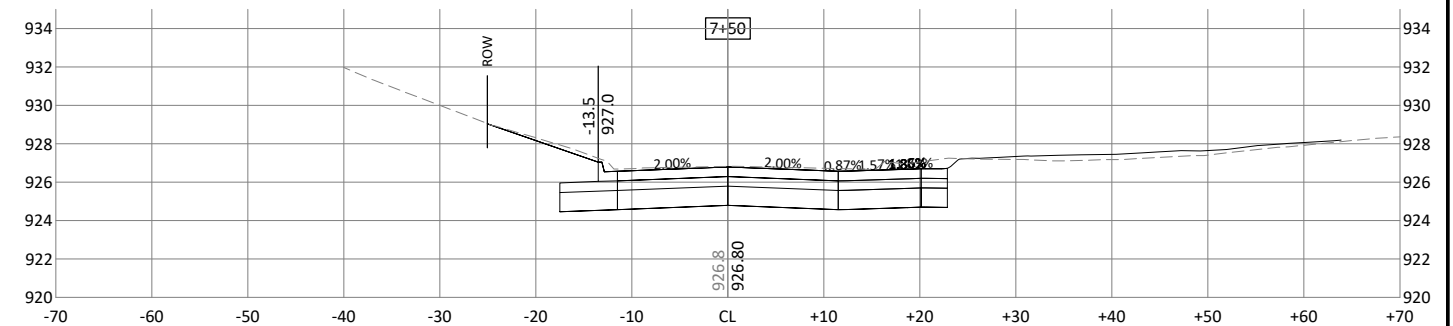
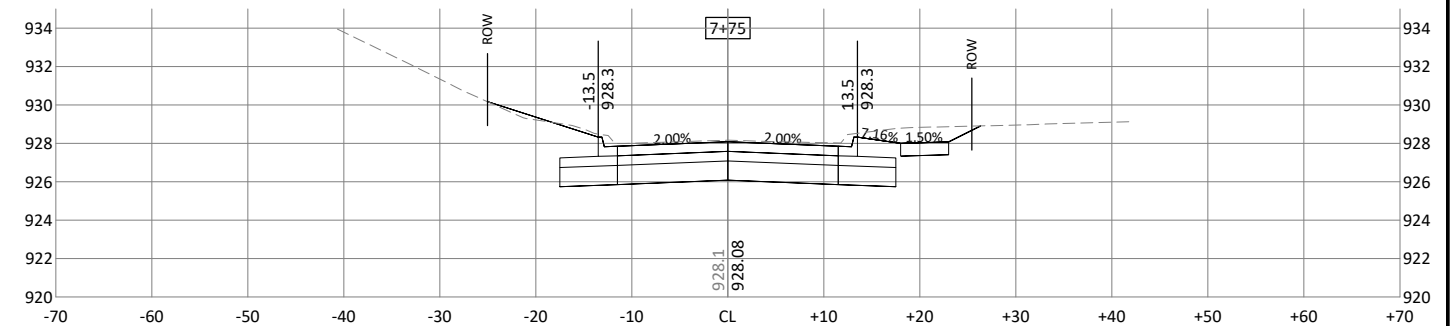
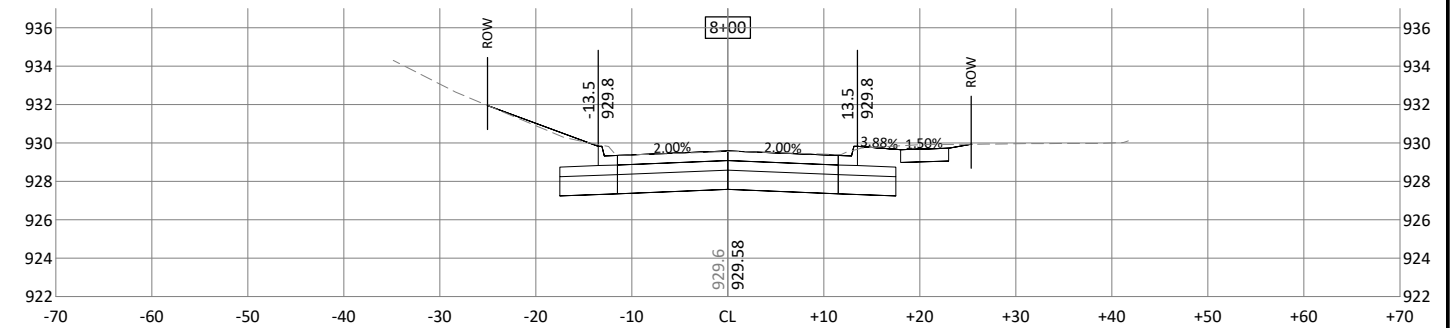
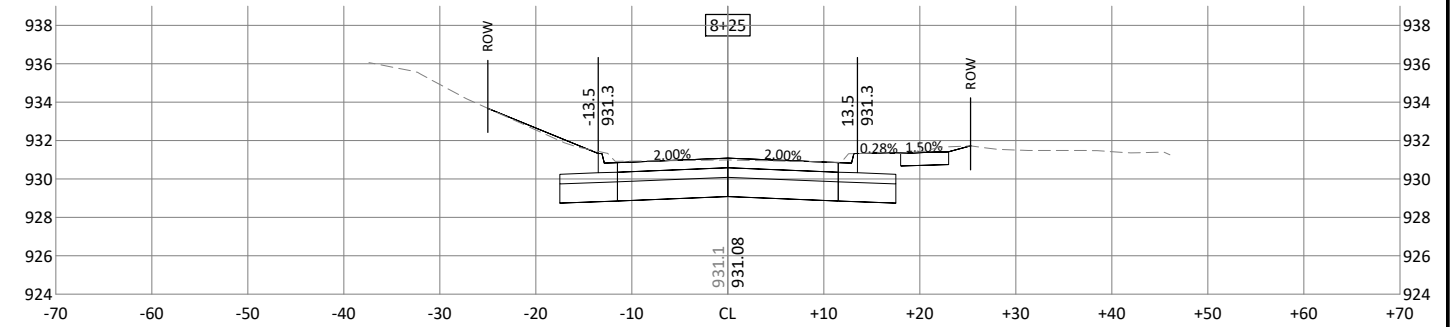
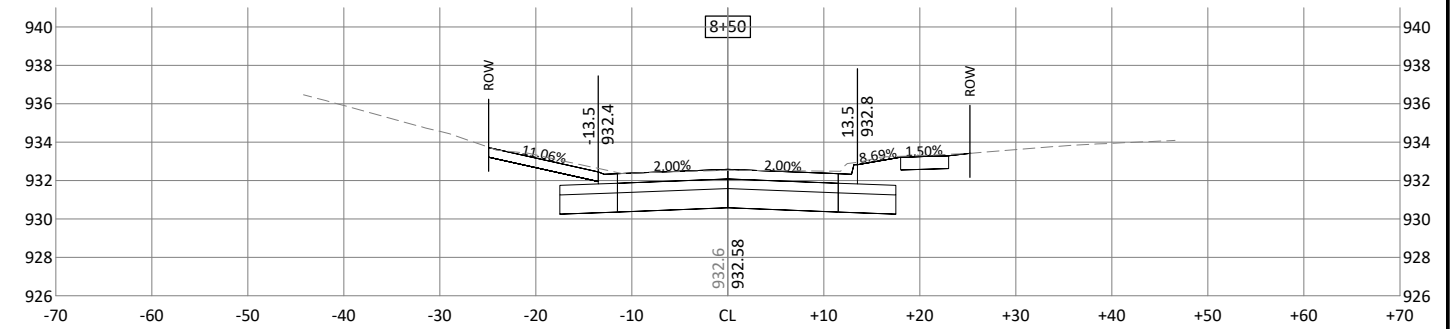
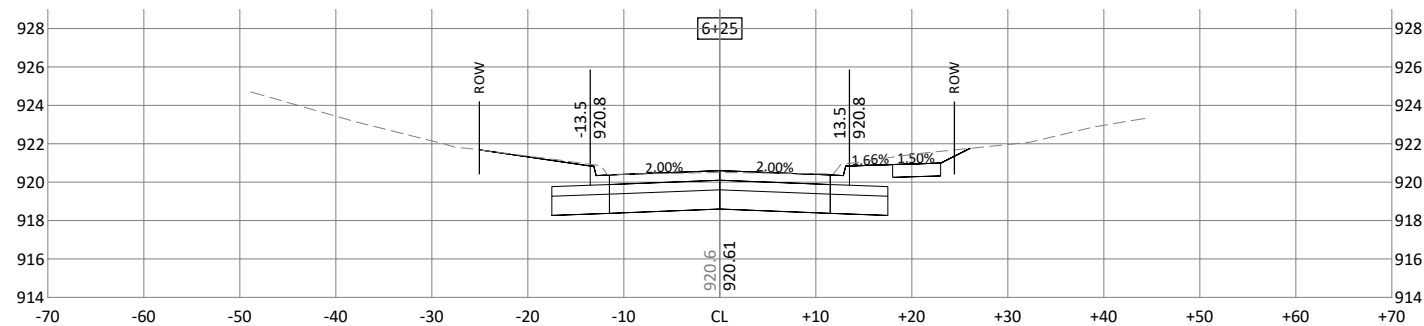
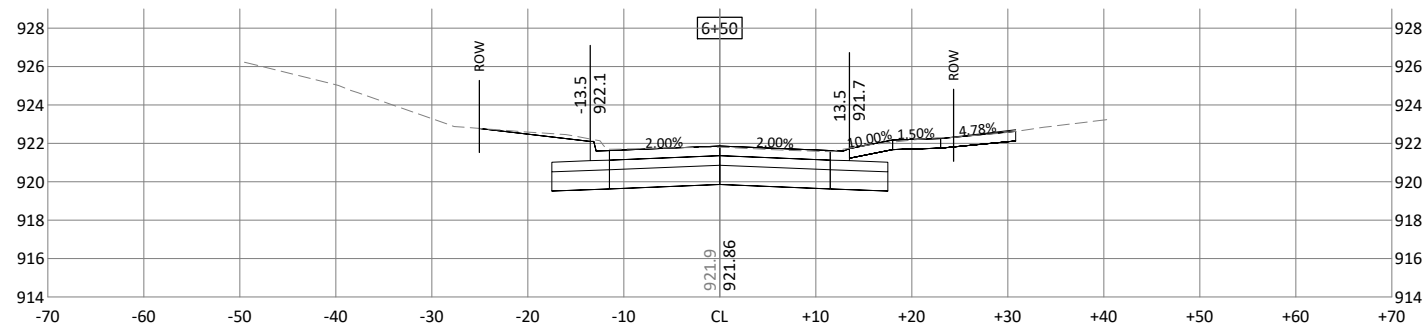
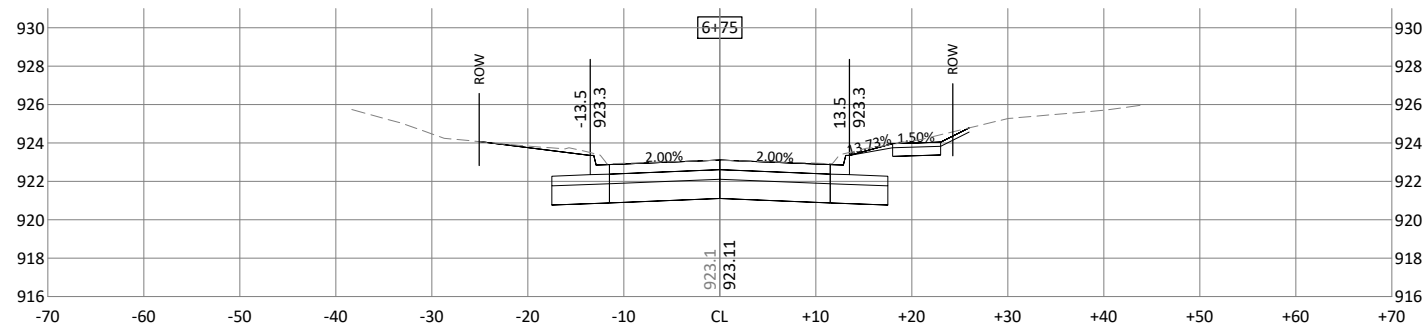
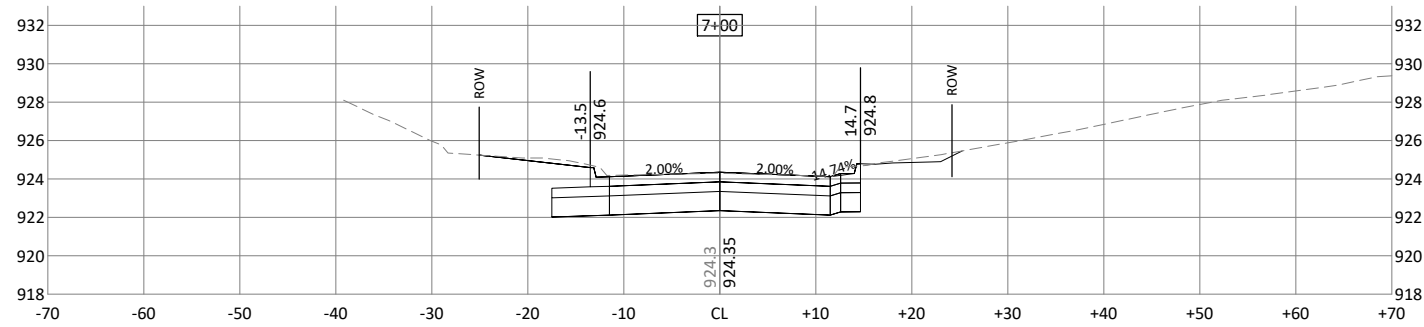
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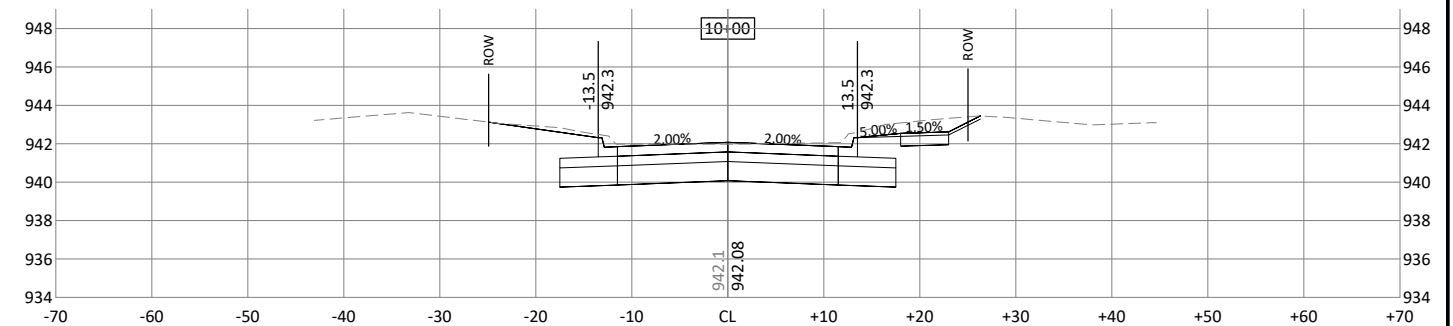
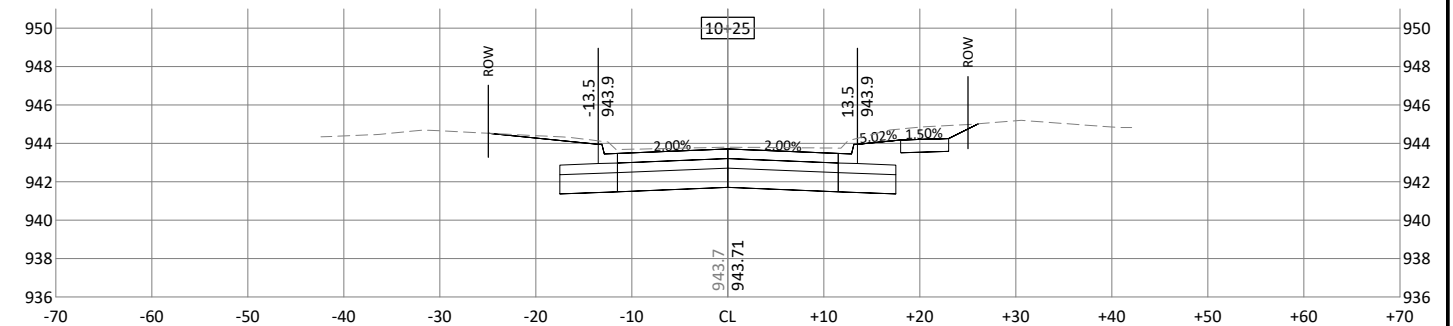
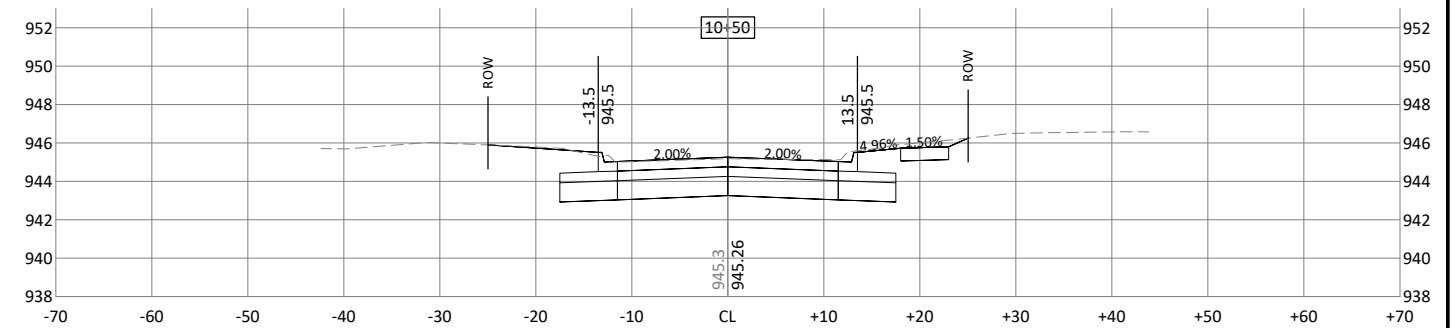
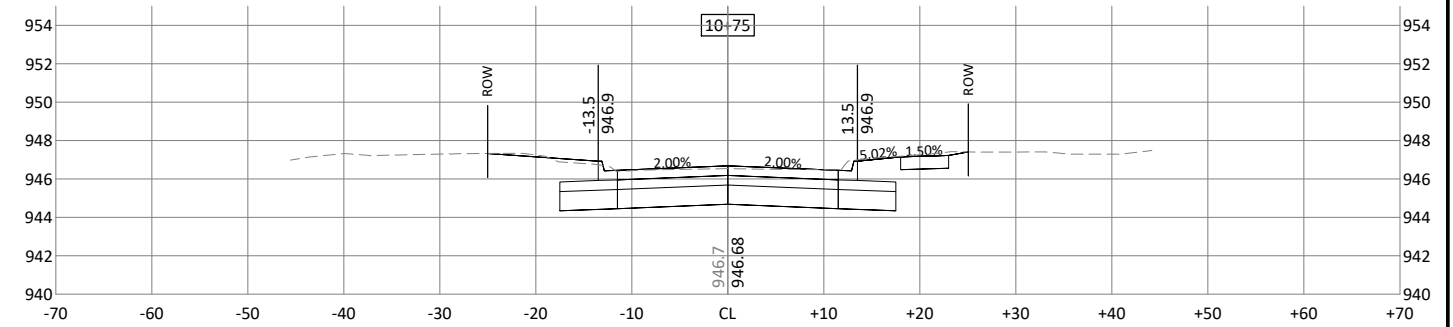
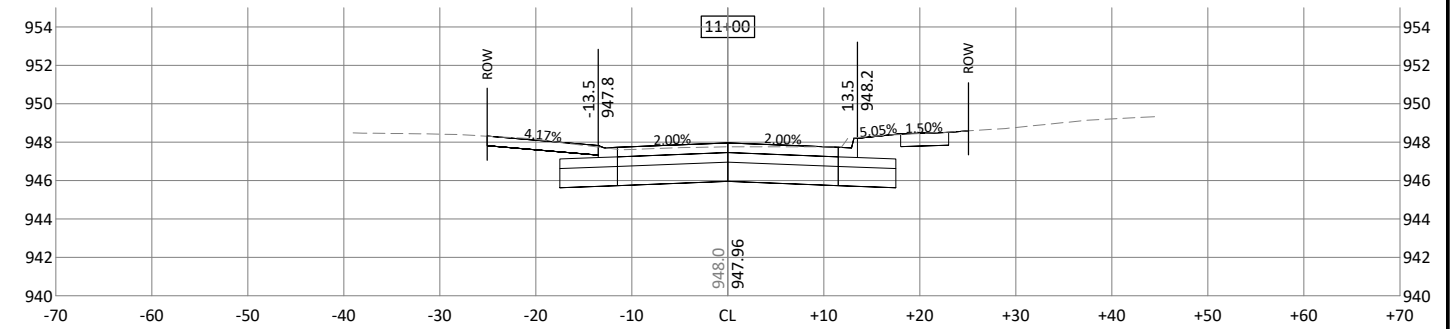
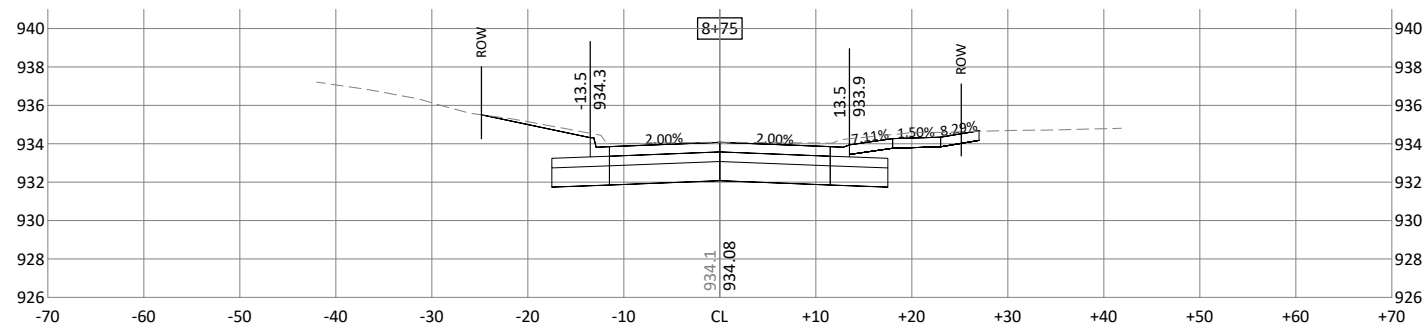
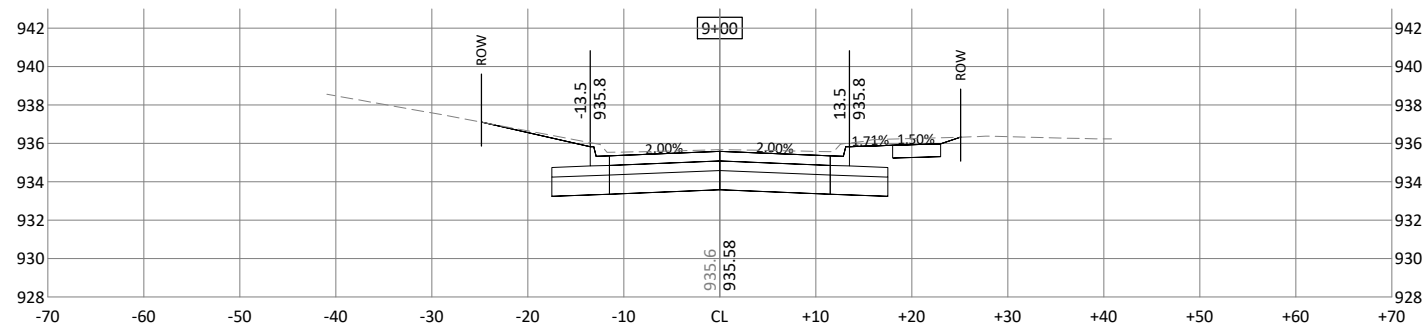
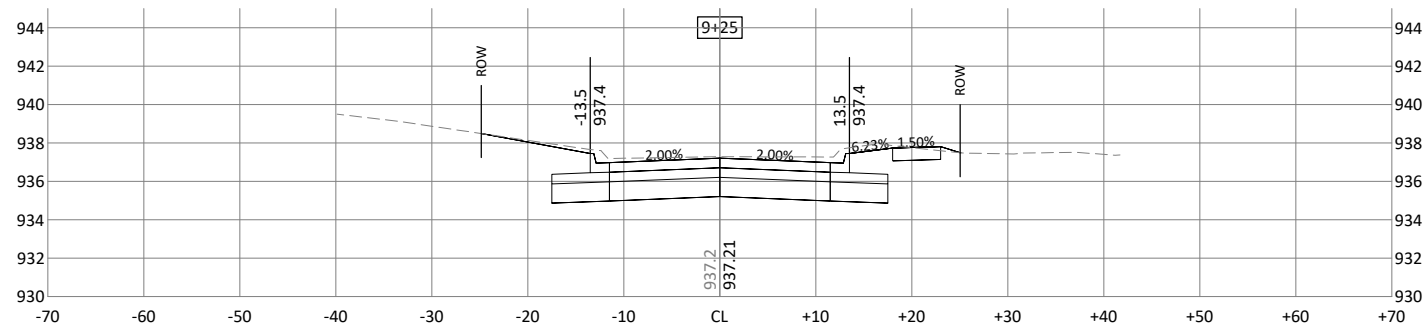
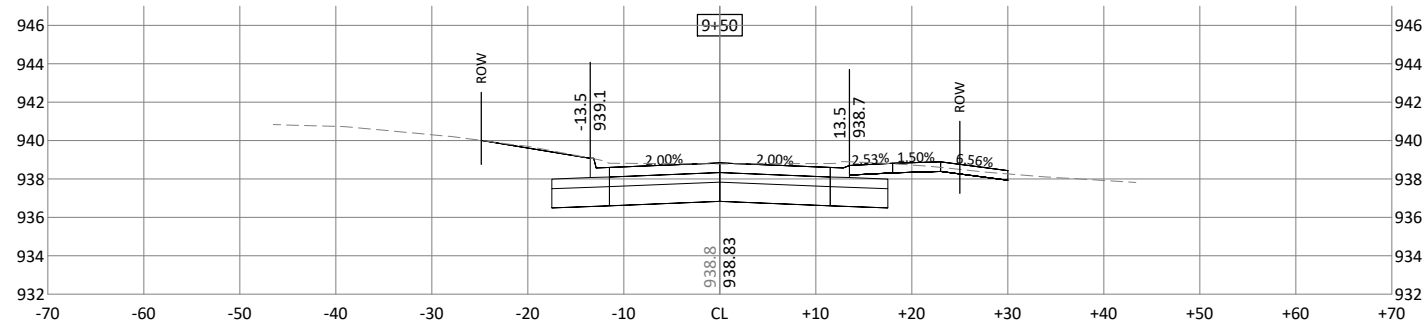
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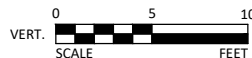
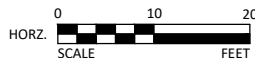
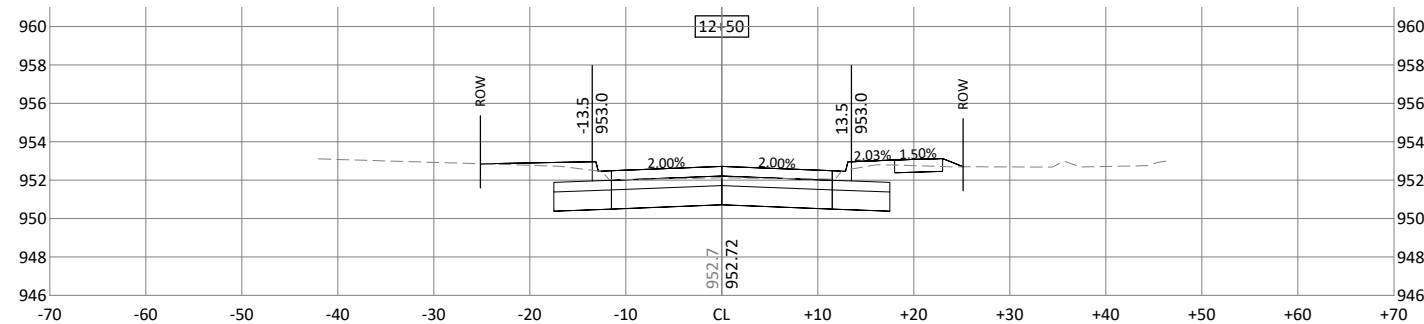
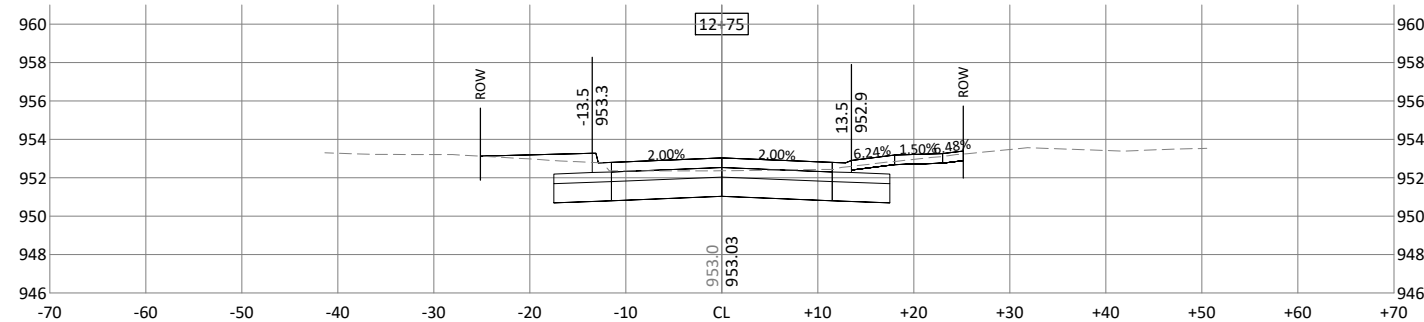
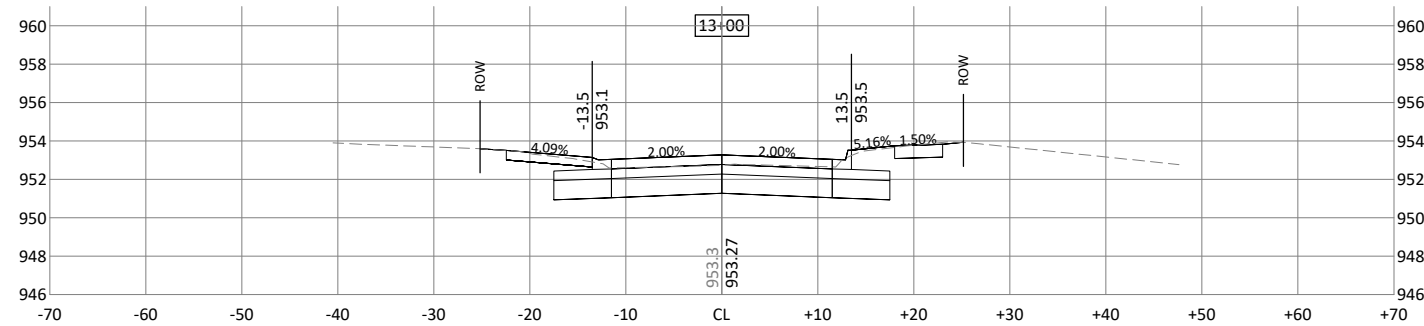
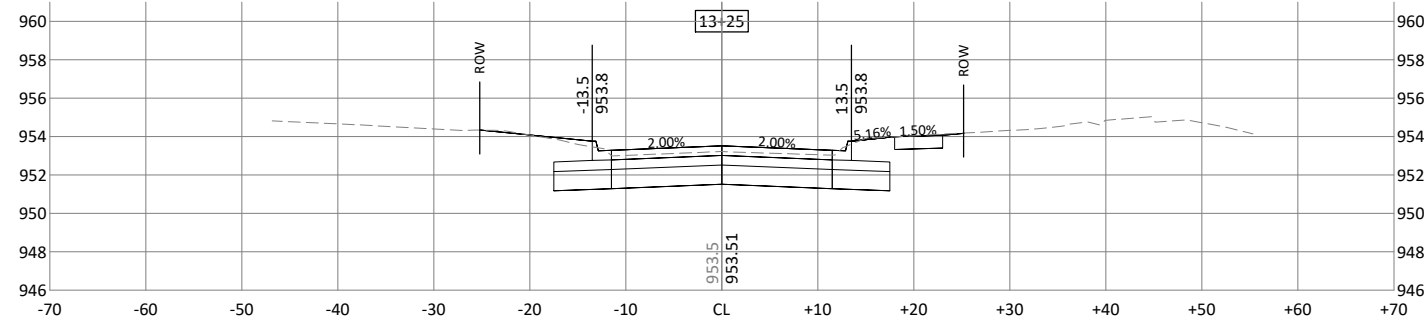
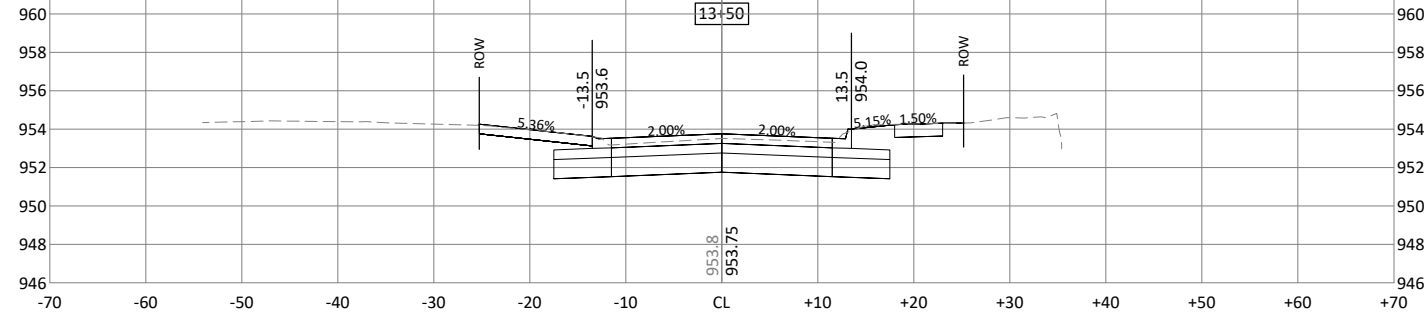
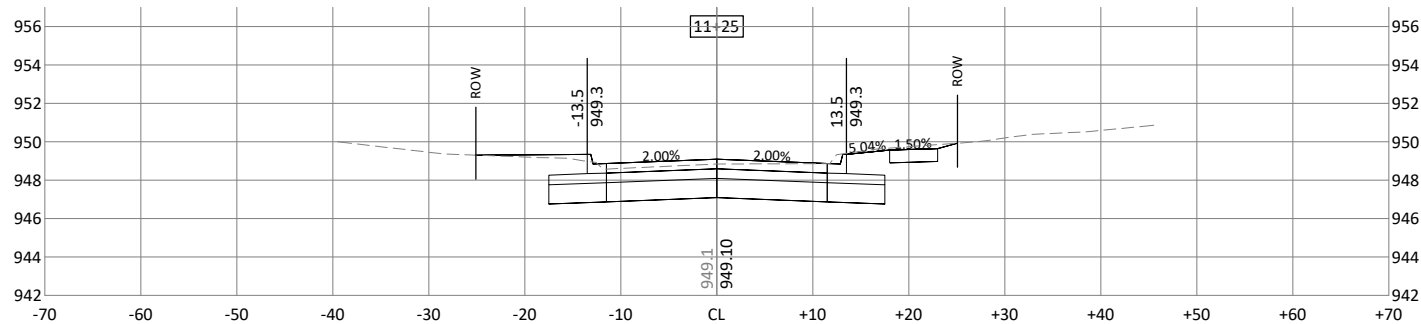
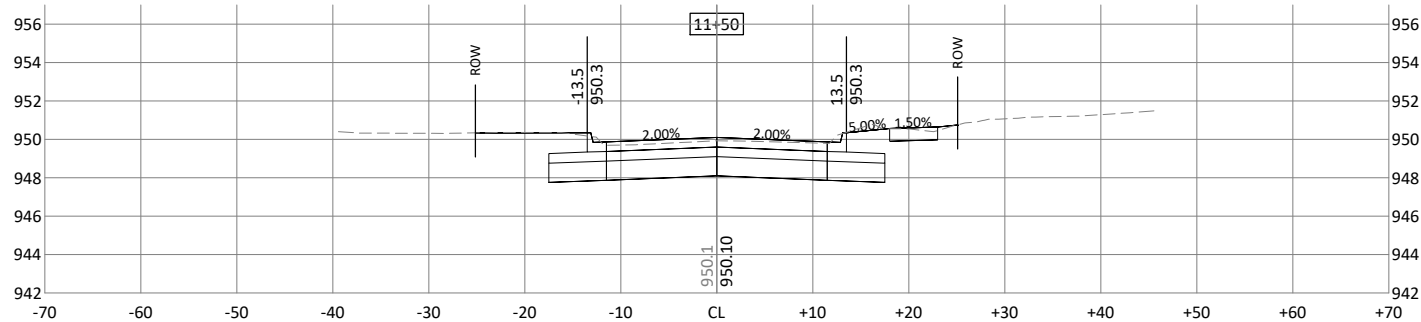
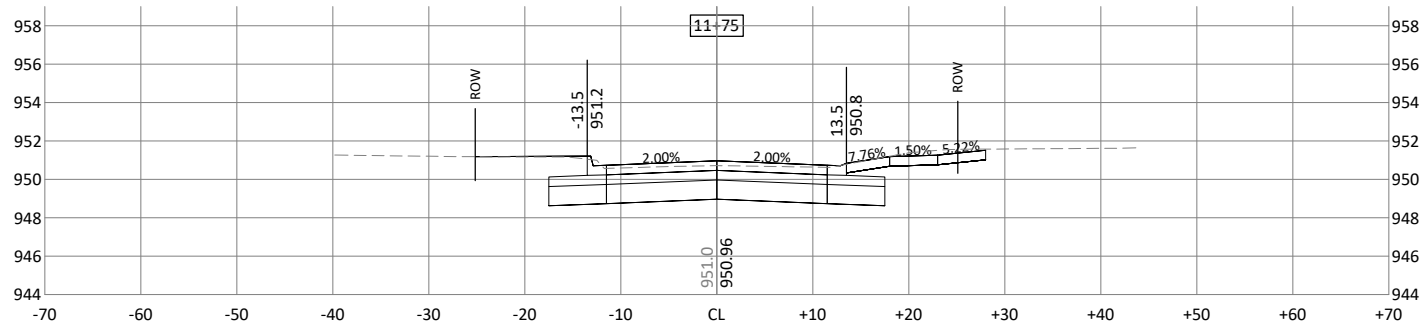
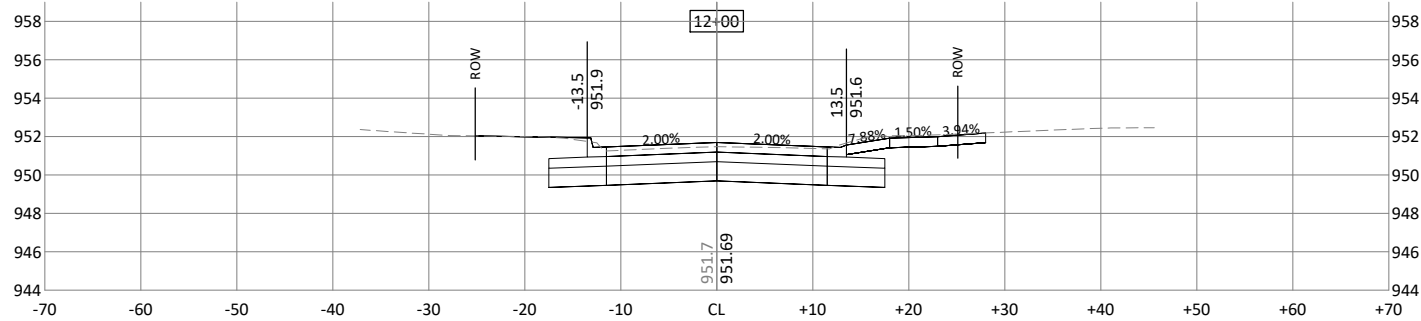
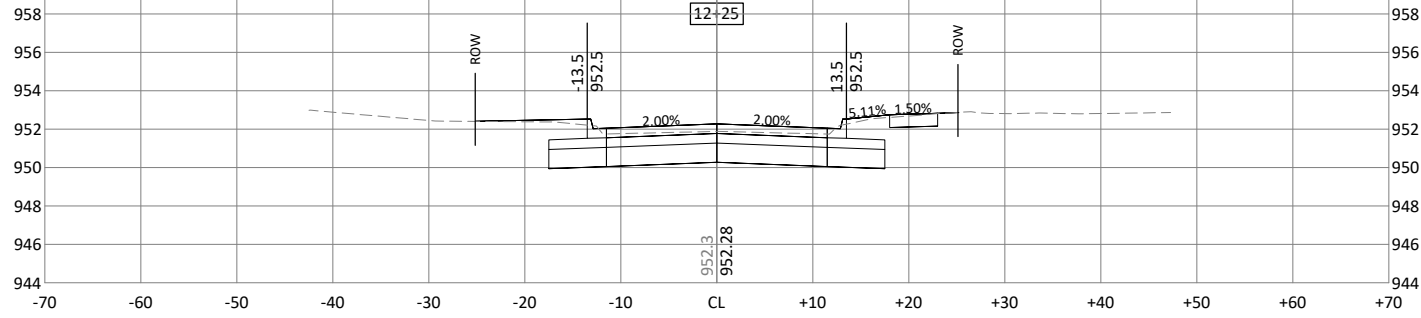
CROSS SECTIONS

SHEET

V.03 |



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REV	ISSUED FOR	DATE
0	CONSTRUCTION SET	01-16-2023



430 E GRAND AVE, SUITE 101
DES MOINES, IOWA 50309
Phone: (515) 259-9190
Email: DesMoines@bolton-menk.com
www.bolton-menk.com



DESIGNED WFK
SEALED JLE
CHECKED JN
CLIENT PROJ. NO. 0A1.127880

CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET RECONSTRUCTION

CROSS SECTIONS

SHEET

W.05

PROJECT MANUAL

68th Street Reconstruction

City of Windsor Heights

Windsor Heights, IA 50324



Real People. Real Solutions.

Bolton-Menk.com

SECTION 00005 – CERTIFICATION

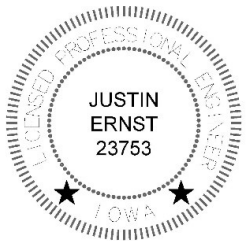
PROJECT MANUAL

for

68th Street Reconstruction

City of Windsor Heights

Windsor Heights, IA 50324

	<p>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.</p> <p>_____ Date: _____</p> <p>Justin Ernst License No. 23753 My renewal date is 12/31/2023 Pages or sheets covered by this seal: <u>ALL SHEETS</u></p>
---	---

SECTION 00010 - TABLE OF CONTENTS

68th Street Reconstruction 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 AND NOTICE OF PUBLIC HEARING

00200 - INSTRUCTIONS TO BIDDERS

00410 - PROPOSAL

00410 – PROPOSAL ATTACHMENT: BID ITEMS

00420 - BID BOND

00500 - CONTRACT

00610 - PERFORMANCE, PAYMENT AND MAINTENANCE BOND

00800 - SPECIAL PROVISIONS

Supplemental Specifications

Appendix

Soil Borings Report

DRAWINGS (UNDER SEPARATE COVER):

48 sheets numbered A.01 through W.05, inclusive, dated 1/16/23, and with each sheet bearing the following general title:

68th Street Reconstruction

City of Windsor Heights

APPENDICES

DES MOINES WATER WORKS SPECIFICATIONS

SOIL BORINGS

**This project is based on
SUDAS STANDARD SPECIFICATIONS, 2023 EDITION
unless modified herein.**

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

NOTICE TO BIDDERS

68th Street Reconstruction
City of Windsor Heights
Windsor Heights, IA 50324

Time and Place for Filing Sealed Proposals. Sealed bids for the work comprising the repair & improvement as stated below must be filed before 10:00 A.M. on February 14, 2023 in the office of the City Clerk, 1145 66th Street, Suite 1, Windsor Heights, IA.

Time and Place Sealed Proposals Will be Opened and Considered. Sealed proposals will be opened and bids tabulated at 10:00 A.M. on February 14, 2023, in the office of the City Clerk, City of Windsor Heights, 1145 66th Street, Suite 1, Windsor Heights, IA for consideration by the City of Windsor Heights at its meeting at 6:00 P.M. on February 20, 2023. The City of Windsor Heights reserves the right to reject any and all bids.

Time for Commencement and Completion of Work. Work on the improvement shall commence upon approval of the contract by the Council and as stated in the Notice to Proceed. All work under the Contract must be substantially complete on or before September 30, 2023. Liquidated damages 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 per set. This fee is refundable, provided the plans and specifications are returned complete and in good usable 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 East Grand Ave, Suite 101, Des Moines, IA 50309, (515) 259-9190, desmoines@bolton-menk.com. 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 Quest project # 836448 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 along 68th Street between Timmons Drive and Hickman Road.

The construction improvements include approximately 4,200 SY of PCC paving, 540 SY of PCC sidewalk, 1400 LF of water main, 790 LF of storm sewer, 9 EA structures and 2,400 LF of subdrain. Other associated improvements include traffic control, erosion control, surface restoration, and miscellaneous associated work necessary to complete the project.

This Notice is given by authority of the

City of Windsor Heights

Travis Cooke

City Clerk

NOTICE OF PUBLIC HEARING

68th Street Reconstruction
City of Windsor Heights
Windsor Heights, IA 50324

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 20, 2023, at 1133 66th Street, Windsor Heights, IA.

PROJECT DESCRIPTION: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement along 68th Street between Timmons Drive and Hickman Road.

The construction improvements include approximately 4,200 SY of PCC paving, 540 SY of PCC sidewalk, 1400 LF of water main, 790 LF of storm sewer, 9 EA structures and 2,400 LF of subdrain. Other associated improvements include traffic control, erosion control, surface restoration, and miscellaneous associated work necessary to complete the project.

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, 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.

INSTRUCTIONS TO BIDDERS

68th Street Reconstruction
City of Windsor Heights
Windsor Heights, IA 50324

The work comprising the above referenced project shall be constructed in accordance with the SUDAS Standard Specifications, 2023 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 The bid bond must be submitted on the enclosed Bid Bond form as no other bid bond forms are acceptable. 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.

ARTICLE 2 - SUBMISSION OF THE PROPOSAL AND IDENTITY OF BIDDER

- 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;
 - 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 2023 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 Council and as stated in the Notice to Proceed. All work under the Contract must be substantially complete on or before September 30, 2023. Damages in the amount of \$500.00 per day will be assessed for each day the work remains incomplete.
- 3.02 Community Events.
- N/A
- 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 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 four 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 county 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 of foreign county 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 Reconstruction
City of Windsor Heights
Windsor Heights, IA

PROPOSAL: PART A – SCOPE

The City of Windsor Heights, hereinafter called the “Jurisdiction”, has need of a qualified contractor to complete the work comprising the below referenced repair or improvement. The undersigned Bidder hereby proposes to complete the work comprising 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 following described improvements:

PROJECT DESCRIPTION: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement along 68th Street between Timmons Drive and Hickman Road.

The construction improvements include approximately 4,200 SY of PCC paving, 540 SY of PCC sidewalk, 1400 LF of water main, 790 LF of storm sewer, 9 EA structures and 2,400 LF of subdrain. Other associated improvements include traffic control, erosion control, surface restoration, and miscellaneous associated work necessary to complete the 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 BID 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. The Total Construction Cost shall be used only for the comparison of bids. The jurisdiction shall only use the Total Construction Cost for determining the sufficiency of the bid security.

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. Substantially complete the work on or before September 30, 2023; and
5. Pay liquidated damages for noncompliance with said completion provisions at the rate of Five Hundred dollars (\$500.00) 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

By

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

The bidder shall enter its Public
Registration Number _____ - _____
issued by the Iowa Commissioner of Labor
Pursuant Section 91C.5 of the Iowa Code.

Telephone Number

**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

1. Name of home state or foreign country reported to the Iowa Secretary of State: _____
2. Does your company's home state or foreign country offer preferences to bidders who are residents? ☐ Yes ☐ No
3. 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.

68th Street Reconstruction
City of Windsor Heights
Windsor Heights, IA 50324

PROPOSAL ATTACHMENT: PART C – BID ITEMS AND QUANTITIES

This is a UNIT BID PRICE CONTRACT. The bidder must provide the Unit Bid Price, the total Bid Price, and the Total Bid Amount; 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. The Jurisdiction shall only use the Total Base Bid Amount for comparison of bids

Item No.	Description	Unit	Quantity	Unit Price	Extension
1	CLEARING AND GRUBBING	LS	1		
2	TOPSOIL, ON-SITE	CY	360		
3	EXCAVATION, CLASS 10	CY	1,145		
4	SUBGRADE PREPARATION	SY	5,490		
5	SUBGRADE TREATMENT, GEO-GRID	SY	5,490		
6	SUBBASE, MODIFIED, 6"	SY	5,490		
7	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	185		
8	SANITARY SEWER SERVICE STUB, PVC, 4"	EA	5		
9	STORM SEWER, TRENCHED, RCP, 15"	LF	618		
10	STORM SEWER, TRENCHED, RCP, 18"	LF	84		
11	STORM SEWER, TRENCHED, RCP, 24"	LF	90		
12	REMOVAL OF STORM SEWER, LESS THAN 36"	LF	132		
13	SUBDRAIN, HDPE, 6"	LF	2,430		
14	SUBDRAIN CLEANOUT, TYPE A-1, 6"	EA	10		
15	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6"	EA	9		
16	CONNECT TO SUBDRAIN PIPE	EA	24		
17	WATER MAIN, TRENCHED, PVC, 8"	LF	1,400		
18	FITTING, 8"	LB	1,395		
19	WATER SERVICE TRANSFER, COPPER, 1" (SAME SIDE)	EA	12		
20	WATER SERVICE TRANSFER, COPPER, 1" (OPPOSITE SIDE)	EA	12		
21	WATER SERVICE CURB STOP AND BOX, 1"	EA	24		
22	WATER MAIN REMOVAL, 6"	LF	50		

23	VALVE, GATE, 8"	EA	5		
24	FIRE HYDRANT ASSEMBLY	EA	3		
25	FLUSHING DEVICE (BLOW OFF)	EA	2		
26	FIRE HYDRANT ASSEMBLY REMOVAL	EA	3		
27	VALVE BOX REMOVAL	EA	4		
28	STORM MANHOLE, SW-401, 48"	EA	1		
29	INTAKE, SW-505	EA	6		
30	INTAKE, SW-508	EA	1		
31	INTAKE, SW-510, MODIFIED	EA	1		
32	MANHOLE ADJUSTMENT, MINOR	EA	3		
33	MANHOLE ADJUSTMENT, MAJOR	EA	2		
34	REMOVE MANHOLE	EA	1		
35	REMOVE INTAKE	EA	3		
36	PAVEMENT, PCC, 7"	SY	4,280		
37	REMOVAL OF DRIVEWAY	SY	690		
38	SIDEWALK, PCC, 4"	SY	540		
39	SIDEWALK, PCC, 6"	SY	25		
40	DETECTABLE WARNING	SF	20		
41	DRIVEWAY, PAVED, PCC, 6"	SY	775		
42	PAVEMENT REMOVAL	SY	3,980		
43	TEMPORARY TRAFFIC CONTROL	LS	1		
44	WATERING	LS	1		
45	SOD	SQ	195		
46	SWPPP PREPARATION	LS	1		
47	SWPPP MANAGEMENT	LS	1		
48	FILTER SOCK, 8"	LF	3,000		
49	STABILIZED CONSTRUCTION ENTRANCE	SY	100		
50	EROSION CONTROL MULCHING, HYDRO MULCHING	AC	0		
51	INLET PROTECTION DEVICE, MAINTENANCE, AND REMOVAL	EA	14		
52	MODULAR BLOCK RETAINING WALL	SF	200		
53	MOBILIZATION	LS	1		
54	MAINTENANCE OF POSTAL SERVICE	LS	1		
55	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1		
56	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS	SY	1		
57	CONCRETE WASHOUT	LS	1		
58	CURBSIDE MAILBOX	EA	23		
Total Base Bid Amount:					

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

Bidder Name

BID BOND

68th Street Reconstruction
City of Windsor Heights
Windsor Heights, IA

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 described improvement:

The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement along 68th Street between Timmons Drive and Hickman Road.

The construction improvements include approximately 4,200 SY of PCC paving, 540 SY of PCC sidewalk, 1400 LF of water main, 790 LF of storm sewer, 9 EA structures and 2,400 LF of subdrain. Other associated improvements include traffic control, erosion control, surface restoration, and miscellaneous associated work necessary to complete the project.

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 Hamilton 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:

By _____
Surety Company

Signature Attorney-in-Fact/Officer

Name of Attorney-in-Fact/Officer

Company Name

Company Address

City, State, Zip Code

Company Telephone Number

PRINCIPAL:

By _____
Bidder

Signature

Name (Print/Type)

Title

Address

City, State, Zip Code

Telephone Number

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.

CONTRACT

68th Street Reconstruction
City of Windsor Heights
Windsor Heights, IA

THIS CONTRACT, made and entered into at _____
this _____ day of _____, 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 Reconstruction 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, IA. This contract includes all such contract documents. All work under this contract shall be constructed in accordance with the SUDAS Standard Specifications, 2023 Edition and as further modified by the supplemental specifications and special provisions 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 described improvements:

The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement along 68th Street between Timmons Drive and Hickman Road.

The construction improvements include approximately 4,200 SY of PCC paving, 540 SY of PCC sidewalk, 1400 LF of water main, 790 LF of storm sewer, 9 EA structures and 2,400 LF of subdrain. Other associated improvements include traffic control, erosion control, surface restoration, and miscellaneous associated work necessary to complete the project.

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, maintenance, and payment bond. The Contractor hereby agrees to commence work as stated in the written Notice to Proceed; and substantially complete the work on or before September 30, 2023; and to pay liquidated damages for noncompliance with said completion provisions at a rate of Five Hundred dollars (\$500.00) for each calendar day that the work remains incomplete.

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

(Seal)
ATTEST:

Travis Cooke, City Clerk

By _____
Contractor's Contact Name
Contractor's Title

Street Address

City, State, Zip Code

Telephone

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 this 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 county, 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.

PERFORMANCE, PAYMENT AND MAINTENANCE BOND

68th Street Reconstruction
City of Windsor Heights
Windsor Heights, IA

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 following described improvements:

The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement along 68th Street between Timmons Drive and Hickman Road.

The construction improvements include approximately 4,200 SY of PCC paving, 540 SY of PCC sidewalk, 1400 LF of water main, 790 LF of storm sewer, 9 EA structures and 2,400 LF of subdrain. Other associated improvements include traffic control, erosion control, surface restoration, and miscellaneous associated work necessary to complete the project.

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 within the 4-year period 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.

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 Hamilton 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 _____, _____.

Surety Countersigned By:

PRINCIPAL:

Signature of Iowa Resident Commission Agent as
Prescribed by Chapter 515.52-57, Iowa Code.
(Require only if Attorney-in-Fact is not also an
Iowa Resident Commission Agent).

Contractor

By:

Signature

Name of Resident Commission Agent

Title

Company Name

SURETY:

Company Address

Surety Company

City, State, Zip Code

By:

Signature Attorney-in-Fact Officer

Company Telephone Number

Name of Attorney-in-Fact Officer

Company Name

Company Address

City, State, Zip Code

Company Telephone Number

NOTE: 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. 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.

SPECIAL PROVISIONS

FOR

68th Street Reconstruction
City of Windsor Heights
Windsor Heights, Iowa 50324

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1) CONTRACT PROVISIONS

a) Completion Date

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

b) Liquidated Damage

- i) Damages in the amount as detailed in Section 00500 –Contract per day will be assessed for each 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 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 2023 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) “Owner”, “Jurisdiction” and “City” shall mean the City of Windsor Heights, acting through 68th Street Reconstruction Project.
- iv) “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.
- v) “Engineer” shall mean the Engineer on Record.
- vi) The intent of the Technical Specifications is to describe the construction desired, performance requirements, and standards of materials and construction.
- vii) “Standard Drawings” shall mean the Figures bound within the SUDAS Standard Specifications and/or the Typical Drawings bound within the plans.
- viii) “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.
- ix) “Or equal” shall follow manufacturers names used to establish standards and, if not stated, is implied.

b) Engineer: Bolton & Menk, Inc., 430 East Grand Ave, Suite 101, Des Moines, IA 50309, (515) 259-9190, desmoines@bolton-menk.com.

3) GENERAL PROVISIONS AND COVENANTS

a) Division 1 of the General Provisions and Covenants of the 2023 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.
 - Notify residents of driveway closures a minimum of 48 hours in advance of closure.

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 Reconstruction Project as described in the Official Publication.

5) PLANS AND SPECIFICATIONS

- a) The Owner will furnish five (5) sets of plans and specifications to the Contractor after award of the contract. The Contractor shall compensate the Owner 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 insure 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 Owner.
 - xi) Other standards and codes which may be applicable to acceptable standards of the industry for equipment, materials and installation under the contract.

8) 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 clean up activities as construction progresses.

9) 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.

10) 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 Owner and Engineer.
- d) Contractor shall cooperate with Owner, 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.

11) 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 Owner as needed to allow use of public property as necessary for the event. If contract continues for multiple years, event is still in force even though dates and locations may change.

12) 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 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 Owner.

13) 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 schedule, 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.

14) COORDINATION WITH OTHERS

- a) Contractor shall cooperate and coordinate construction with the Owner, utility companies, affected property owners, and other contractors working in 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.

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 it as needed due to changes in progress of construction from 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 the written Notice to Proceed.

- f) 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 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 SURVEY DOCUMENTATION & RESPONSIBILITIES OF ENGINEER AND CONTRACTOR

- a) Contractor is responsible to provide construction staking per SUDAS requirements.

19) MATERIALS TESTS

- a) Material testing as specified for construction will be completed by an independent testing laboratory retained by the Contractor and approved by the Engineer. Testing shall meet the requirements of the SUDAS Standard Specifications.
- b) The Contractor shall coordinate all material testing with the Engineer.
- c) The Contractor shall provide transportation of all samples to the laboratory.
- d) The Contractor shall not deliver materials to the project site until laboratory tests have been furnished which verify compliance of materials with specifications.
- e) Contractor shall provide gradation and materials certifications for all granular materials. Certify that sources of Portland Cement and aggregate sources are Iowa DOT approved.
- f) Contractor shall certify that materials and equipment are manufactured in accordance with applicable specifications.

20) SOIL BORINGS

- a) N/A

21) 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 Owner.
- 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.

22) 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 as directed by the Engineer.
- b) 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.
- c) Burning of brush and other debris is not permitted. Contractor is responsible for selecting disposal location off site.
- d) 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.
- e) The Contractor shall cooperate with all applicable City, State and Federal agencies concerning disposal of materials.
- f) The City of Windsor Heights, Iowa retains first right of refusal for retaining any existing materials removed by the construction.
- 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.

23) TRAFFIC CONTROL

- a) 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.

- b) 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).
- c) Adjustments to the traffic control or the addition of flaggers will be required if, in the opinion of the Engineer, undue traffic congestion occurs.
- d) Contractor shall provide continuous access for police, fire, and other emergency vehicles.
- e) 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.

24) 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.

25) 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.

26) 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
- Construction fencing
- Construction staging & 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
- Dust control measures
- Engineering Fabric
- Excavation, verification and protection of existing utilities
- Field testing
- Finish grading
- Full depth sawcutting of existing pavement
- 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
- 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
- Working backfill to reduce moisture content
- Working subgrade to achieve acceptable moisture content

****END OF SECTION****


Des Moines Water Works Specifications
for
68th Street Reconstruction
City of Windsor Heights
Windsor Heights, IA

**WINDSOR HEIGHTS 68TH STREET
RECONSTRUCTION**

SPECIAL PROVISION

WATER MAINS

CITY OF DES MOINES

	<p>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.</p>
	<p><i>Carla J. Schumacher</i> <i>01/04/2023</i> 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</p>

SPECIAL PROVISION

WATER MAINS

I. GENERAL INFORMATION

A. Submittals

Des Moines Water Works (DMWW) will review all shop drawings for materials related to water main construction. DMWW requires 15 calendar days to review.

Supplier shall provide summary sheet with shop drawing submittal and label each shop drawing within submittal.

Shop drawing review shall be completed prior to start of water main construction. DMWW Engineering Technician will match shop drawings to materials brought to site. Materials not matching submittal will be rejected.

The Contractor shall submit these shop drawings to:

Carla Schumacher
Des Moines Water Works
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.

The Contractor shall allow 3-5 days for pressure testing and chlorination of water main within each stage.

C. Connections to the Existing Water System

Expose existing buried pipe at locations that will be connected to new piping. Confirm location, depth, orientation, type of pipe, outside diameter, and type and location of joints.

Verify outside diameter of water main to determine if it is oversized. Procure materials as appropriate prior to altering the water main.

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.

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.

E. Adjustment of Facilities

Adjust inline valve boxes, hydrant valve boxes, stop boxes, and hydrants per DMWW and paving inspector requirements.

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 recompact areas at the same frequency as the original tests. Testing of recompact 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 22 80 – Horizontally Directional Drilled Water Main.
- 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 67 40 – Pressure Testing Water Mains.
- E. 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, 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. Water crossings, in areas where no evidence of erosion exists, are excluded from these requirements.
4. 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. Solvent cement joints are strictly prohibited.
- F. 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.
- G. Joint bonds: No. 2 AWG-HMWPE stranded copper cable per Section 13 11 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. Anode 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: DryConn Direct Bury Lug Aqua (SKU 90220)
 - b. 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 the plans. Minimum thickness for any 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. Install anode ground rods adjacent to connections to existing piping and at each fire hydrant.
- D. Terminate tracer wire in tracer wire connection next to each fire hydrant or other locations directed by Engineer.
- E. Wire splice connectors can only be used to connect ground rods to tracer wire. Wire splice connectors are not allowed at any other locations unless approved by Engineer. Provide long enough roll of tracer wire to not need the use of wire splice connectors.
- F. Allow Engineer to inspect underground splices prior to backfilling.
- G. 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 any pavement or surface restoration. 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 (WHEN NEEDED)

- 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)

- 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. 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.

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 the 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 but not limited to, the corporation elbow, installation of copper pipe, installation of new curb stop and stop box, connection to existing water service, excavation, backfill, and compaction, and final adjustment of curb stop to final grade.
- 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. Payment for tap fee for 1-inch to 2-inch water service transfer is made as a unit to cover the fee charged by DMWW to provide the tap in the Contractor's excavation.
- D. 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.
 - 3. Install 4-inch SDR 26 PVC encasement for all 1-inch water services installed under storm sewers as indicated on Plans.
- 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 22 80 – Horizontally Directional Drilled Water Main.
- B. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- C. 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 ****

Soil Borings Report
for
68th Street Reconstruction
City of Windsor Heights
Windsor Heights, IA

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.

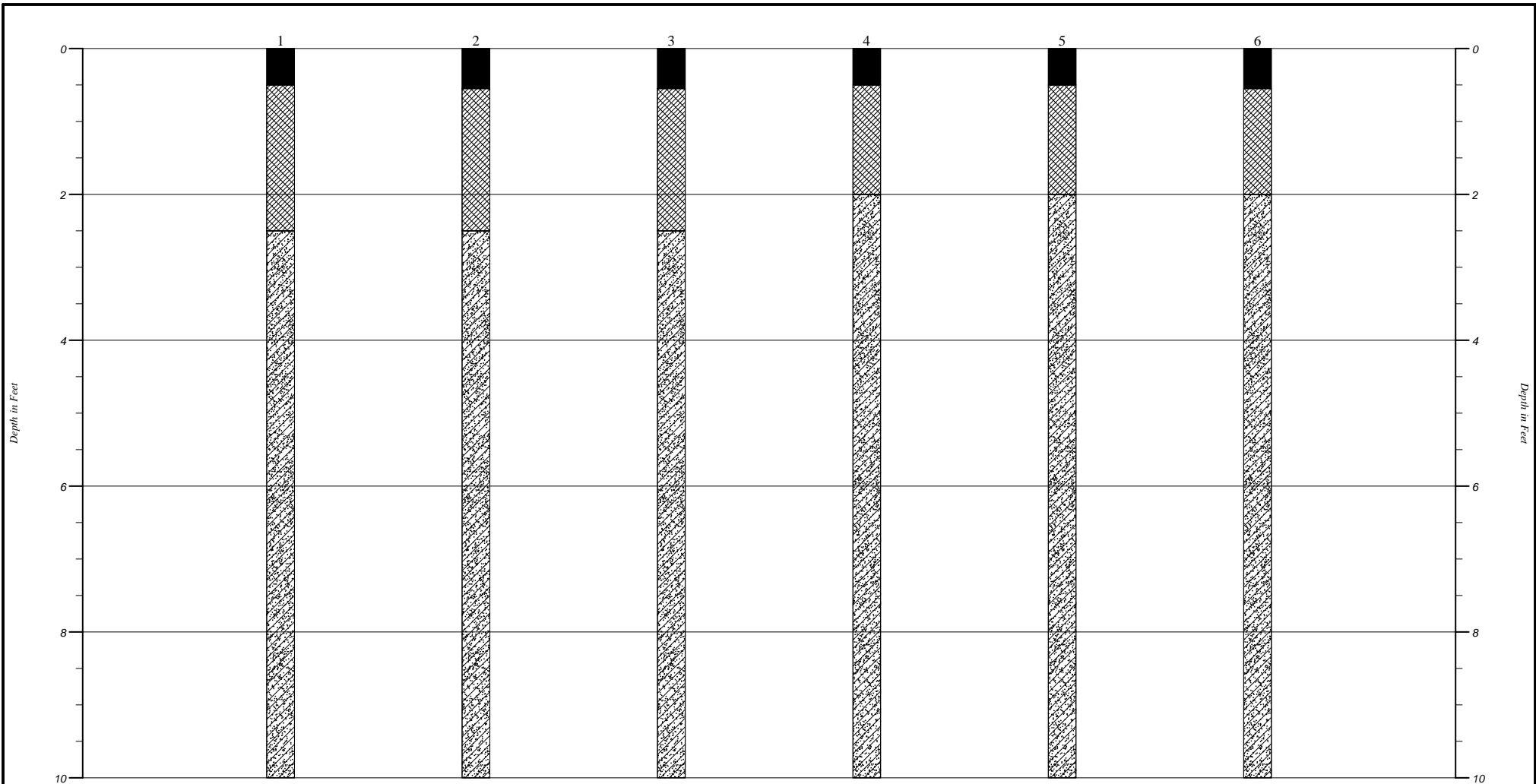
SSA – Split Spoon; samples obtained with a 140 lb automatic hammer in accordance with ASTM D 1586.

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).



Strata symbols

-  Paving
-  Fill
-  Sandy lean clay

CONSTRUCTION MATERIALS TESTING GENERALIZED SOIL PROFILE		
HORIZONTAL SCALE:	DRAWN BY/APPROVED BY	DATE DRAWN
VERTICAL SCALE: 1"=2'		7/27/2022
68th Street Reconstruction Windsor Heights, Iowa		
PROJECT NO. 222082SEB		FIGURE NUMBER



Project 68th Street Reconstruction
Windsor Heights, Iowa
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, ±4.0 inches PCC		
								Very dark brown sandy lean clay, trace gravel, moist	CL	
2								EXISTING FILL		
								Rusty-brown-gray sandy lean clay, moist	CL	
4	1	CS		20.3		2,000**				
6								GLACIAL TILL		
8										
10	2	CS		20.3		2,500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction
Windsor Heights, Iowa
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								±6.5 inches PCC		
								Dark brown silty lean clay, trace sand, moist	CL	
2								EXISTING FILL Moisture seepage noted near 1.5 ft during drilling operations.		
								Rusty-brown-gray sandy lean clay, moist	CL	
4	1	CS		29.9		500**				
6								GLACIAL TILL		
8										
10	2	CS		21.1		2,500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction
Windsor Heights, Iowa
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								±6.5 inches PCC		
								Very dark brown silty lean clay, trace sand, moist	CL	
2								EXISTING FILL		
								Rusty-brown-gray sandy lean clay, moist	CL	
4	1	CS		26.7		1,000**				
6								GLACIAL TILL		
8										
10	2	CS		25.3		1,500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction
Windsor Heights, Iowa
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								±6.0 inches PCC		
								Dark brown sandy lean clay, trace gravel, moist	CL	
								EXISTING FILL		
2								Brown-gray sandy lean clay, moist	CL	
4	1	CS		25.4		2,000**				
6								GLACIAL TILL		
8										
10	2	CS		30.5		500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project **68th Street Reconstruction**
Windsor Heights, Iowa
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								±6.25 inches PCC		
								Dark brown sandy lean clay, trace gravel, moist	CL	
								EXISTING FILL		
2								Brown-gray sandy lean clay, trace gravel, moist	CL	
4	1	CS		23.8		2,500**				
6								GLACIAL TILL		
8										
10	2	CS		31.7		500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction
Windsor Heights, Iowa
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								±6.5 inches PCC		
								Very dark gray sandy lean clay, trace gravel, moist	CL	
								EXISTING FILL		
2								Dark brown sandy lean clay, trace gravel, moist	CL	
4	1	CS		17.7		3,500**				
6								GLACIAL TILL		
8										
10	2	CS		21.4		3,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		





**Site Map
No Scale**

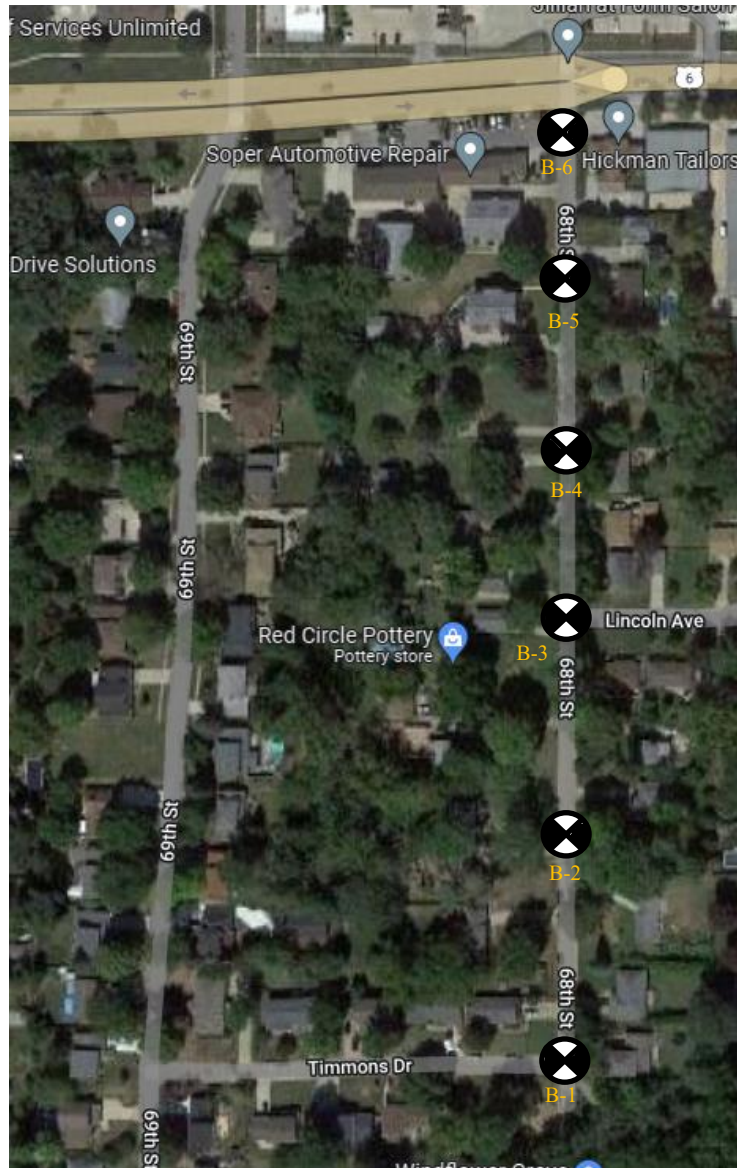


Photo Courtesy of Google Earth

1610 East Madison Ave • Des Moines, Iowa 50313
(515) 263-0794 • Fax (515) 263-0851
www.cmt-iowa.com

CITY OF WINDSOR HEIGHTS
68TH STREET RECONSTRUCTION
OPINION OF PROBABLE COSTS
Thursday, January 12, 2023

Item No.	Description	Unit	Price	Div 1	Div 2	Extension
1	CLEARING AND GRUBBING	LS	\$ 10,000.00	1.00	\$ -	\$ 10,000.00
2	TOPSOIL, ON-SITE	CY	\$ 10.00	360.00	\$ -	\$ 3,600.00
3	EXCAVATION, CLASS 10	CY	\$ 10.00	1145.00	\$ -	\$ 11,450.00
4	BELOW GRADE EXCAVATION (CORE OUT)	CY	\$ 10.00	230.00	\$ -	\$ 2,300.00
5	SUBGRADE PREPARATION	SY	\$ 15.00	5490.00	\$ -	\$ 82,350.00
6	SUBGRADE TREATMENT, 15% POZZOSTONE	SY	\$ 90.00	450.00	\$ -	\$ 40,500.00
7	SUBBASE, MODIFIED, 8"	SY	\$ 45.00	5490.00	\$ -	\$ 247,050.00
8	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	\$ 25.00	200.00	\$ -	\$ 5,000.00
9	SANITARY SEWER SERVICE STUB, PVC, 4"	EA	\$ 5,000.00	1.00	\$ -	\$ 5,000.00
10	STORM SEWER, TRENCHED, RCP, 15"	LF	\$ 90.00	630.00	\$ -	\$ 56,700.00
11	STORM SEWER, TRENCHED, RCP, 18"	LF	\$ 95.00	84.00	\$ -	\$ 7,980.00
12	STORM SEWER, TRENCHED, RCP, 24"	LF	\$ 110.00	99.00	\$ -	\$ 10,890.00
13	REMOVAL OF STORM SEWER, LESS THAN 36"	LF	\$ 25.00	132.00	\$ -	\$ 3,300.00
14	SUBDRAIN, HDPE, 6"	LF	\$ 15.00	2400.00	\$ -	\$ 36,000.00
15	SUBDRAIN CLEANOUT, TYPE A-1, 6"	EA	\$ 750.00	11.00	\$ -	\$ 8,250.00
16	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6"	EA	\$ 350.00	10.00	\$ -	\$ 3,500.00
17	CONNECT TO SUBDRAIN PIPE	EA	\$ 250.00	1.00	\$ -	\$ 250.00
18	WATER MAIN, TRENCHED, C900 DR18 PVC, STAB JOINT, 8", WITH TRACER WIRE	LF	\$ 75.00	0.00	\$ 1,310.00	\$ 98,250.00
19	WATER MAIN, TRENCHED, C900 DR18 PVC, RESTRAINED JOINT, 8", WITH TRACER WIRE	LF	\$ 75.00	0.00	\$ 170.00	\$ 12,750.00
20	FITTING, 8"	LB	\$ 20.00	0.00	\$ 1,150.00	\$ 23,000.00
21	WATER SERVICE TRANSFER, COPPER, 1" (SAME SIDE)	EA	\$ 1,500.00	0.00	\$ 13.00	\$ 19,500.00
22	WATER SERVICE TRANSFER, COPPER, 1" (OPPOSITE SIDE)	EA	\$ 2,000.00	0.00	\$ 13.00	\$ 26,000.00
23	WATER SERVICE CURB STOP AND BOX, 1"	EA	\$ 800.00	0.00	\$ 26.00	\$ 20,800.00
24	WATER MAIN REMOVAL, 6"	LF	\$ 20.00	0.00	\$ 150.00	\$ 3,000.00
25	VALVE, GATE, DUCTILE IRON (DI), 8-IN	EA	\$ 2,000.00	0.00	\$ 5.00	\$ 10,000.00
26	FIRE HYDRANT ASSEMBLY	EA	\$ 6,500.00	0.00	\$ 3.00	\$ 19,500.00
27	FLUSHING DEVICE (BLOW OFF)	EA	\$ 2,000.00	0.00	\$ 2.00	\$ 4,000.00
28	FIRE HYDRANT ASSEMBLY REMOVAL	EA	\$ 1,500.00	0.00	\$ 3.00	\$ 4,500.00
29	VALVE BOX REMOVAL	EA	\$ 700.00	0.00	\$ 4.00	\$ 2,800.00
30	TAP FEE, 1", REPLACEMENT TAP FOR WATER SERVICE TRANSFER	EA	\$ 500.00	0.00	\$ 24.00	\$ 12,000.00
31	PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE	EA	\$ 1,000.00	0.00	\$ 3.00	\$ 3,000.00
32	FOUNDATION ROCK	TON	\$ 50.00	0.00	\$ 50.00	\$ 2,500.00
33	STORM MANHOLE, SW-401, 48"	EA	\$ 5,000.00	1.00	\$ -	\$ 5,000.00
34	INTAKE, SW-503	EA	\$ 5,000.00	1.00	\$ -	\$ 5,000.00
35	INTAKE, SW-505	EA	\$ 6,500.00	6.00	\$ -	\$ 39,000.00
36	INTAKE, SW-508	EA	\$ 7,500.00	1.00	\$ -	\$ 7,500.00
37	INTAKE, SW-510, MODIFIED	EA	\$ 12,000.00	1.00	\$ -	\$ 12,000.00
38	MANHOLE ADJUSTMENT, MINOR	EA	\$ 2,000.00	3.00	\$ -	\$ 6,000.00
39	MANHOLE ADJUSTMENT, MAJOR	EA	\$ 4,000.00	2.00	\$ -	\$ 8,000.00
40	REMOVE MANHOLE	EA	\$ 2,500.00	1.00	\$ -	\$ 2,500.00
41	REMOVE INTAKE	EA	\$ 2,500.00	5.00	\$ -	\$ 12,500.00
42	PAVEMENT, PCC, 7"	SY	\$ 70.00	4290.00	\$ -	\$ 300,300.00
43	REMOVAL OF DRIVEWAY	SY	\$ 10.00	725.00	\$ -	\$ 7,250.00
44	SIDEWALK, PCC, 4"	SY	\$ 45.00	540.00	\$ -	\$ 24,300.00
45	SIDEWALK, PCC, 6"	SY	\$ 55.00	25.00	\$ -	\$ 1,375.00
46	DETECTABLE WARNING	SF	\$ 50.00	20.00	\$ -	\$ 1,000.00
47	DRIVEWAY, PAVED, PCC, 6"	SY	\$ 55.00	885.00	\$ -	\$ 48,675.00
48	DRIVEWAY, GRANULAR	TON	\$ 30.00	250.00	\$ -	\$ 7,500.00
49	PAVEMENT REMOVAL	SY	\$ 10.00	3980.00	\$ -	\$ 39,800.00
50	TEMPORARY TRAFFIC CONTROL	LS	\$ 15,000.00	1.00	\$ -	\$ 15,000.00
51	PERFORATED SQUARE STEEL TUBE POSTS	EA	\$ 500.00	12.00	\$ -	\$ 6,000.00
52	WATERING	LS	\$ 5,000.00	1.00	\$ -	\$ 5,000.00
53	SOD	SQ	\$ 65.00	205.00	\$ -	\$ 13,325.00
54	SWPPP PREPARATION	LS	\$ 2,000.00	1.00	\$ -	\$ 2,000.00
55	SWPPP MANAGEMENT	LS	\$ 5,000.00	1.00	\$ -	\$ 5,000.00
56	FILTER SOCK, 8"	LF	\$ 2.50	2400.00	\$ -	\$ 6,000.00
57	STABILIZED CONSTRUCTION ENTRANCE	SY	\$ 25.00	100.00	\$ -	\$ 2,500.00
58	EROSION CONTROL MULCHING, HYDRO MULCHING	AC	\$ 3,000.00	0.45	\$ -	\$ 1,350.00
59	INLET PROTECTION DEVICE, MAINTENANCE, AND REMOVAL	EA	\$ 200.00	15.00	\$ -	\$ 3,000.00
60	MODULAR BLOCK RETAINING WALL	SF	\$ 60.00	200.00	\$ -	\$ 12,000.00
61	MOBILIZATION	LS	\$ 174,000.00	1.00	\$ -	\$ 174,000.00

62	MAINTENANCE OF POSTAL SERVICE	LS	\$ 2,500.00	1.00	\$ -	\$ 2,500.00
63	MAINTENANCE OF SOLID WASTE COLLECTION	LS	\$ 10,000.00	1.00	\$ -	\$ 10,000.00
64	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS	LS	\$ 10,000.00	1.00	\$ -	\$ 10,000.00
65	CONCRETE WASHOUT	LS	\$ 5,000.00	1.00	\$ -	\$ 5,000.00
66	CURBSIDE MAILBOX	EA	\$ 1,000.00	23.00	\$ -	\$ 23,000.00
67						
						\$ 1,619,095.00
Subtotal Construction:						\$ 1,619,095.00
Construction Contingencies 5%:						\$ 81,000.00
TOTAL OPINION OF IMPROVEMENT COST						\$ 1,700,095.00



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL
FROM: Justin Ernst, City Engineer
SUBJECT: Consideration of Bids - 68th Street Reconstruction Improvements Project

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

1. 68th Street Reconstruction Letter of Recommendation



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

02/14/2023

City of Windsor Heights
1145 66th Street Suite 1
Windsor Heights, Iowa 50324

RE: 68th Street Reconstruction
Recommendation of Award
Project No.: 0A1.127880

Dear Rachelle Swisher:

At 10:00 A.M on February 14, 2023 bids were received for the 68th Street Reconstruction project. The Engineer's Estimate for the total base bid was \$1,621,145.00. Two bids were received. All bidders were responsive, and bids are summarized as follows:

Bidder	Total Base Bid
All Star Concrete, LLC	\$1,922,231.25
Rognes Corporation	\$2,243,035.00

The bid received from All Star Concrete, LLC was 16.99% above the engineers estimate for the project, and was determined to be the lowest responsive, responsible bidder. Bolton & Menk, Inc. has reviewed the bid documents submitted and checked references on this bidder and was satisfied with responses given.

Therefore, Bolton & Menk, Inc. recommends award of the 68th Street Reconstruction project to All Star Concrete, LLC, for the total base bid amount of \$1,922,231.25 (One Million, Nine-Hundred Twenty-Two Thousand, Two-Hundred Thirty-One Dollars and Twenty-Five Cents).

The bid tabulation is attached for your use.

Feel free to contact me should there be any questions related to this project.

Sincerely,

Justin Ernst
Project Manager
BOLTON & MENK, INC.
cc: File w/attachment

TABULATION OF BIDS

68th Street Reconstruction
City of Windsor Heights, Iowa
BMI Project No.: 0A1.127880



430 E Grand Avenue
Suite 101
Des Moines, IA 50309
(515) 259-9190

02/14/2023 @ 10:00 AM

Item No.	Description	Unit	Quantity	Engineer's Estimate Bolton & Menk, Inc.		Rognes Corp. Ankeny, IA		All Star Concrete, LLC Johnston, IA	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1	CLEARING AND GRUBBING	LS	1	\$10,000.00	\$10,000.00	\$20,000.00	\$20,000.00	\$8,500.00	\$8,500.00
2	TOPSOIL, ON-SITE	CY	375	\$10.00	\$3,750.00	\$56.00	\$21,000.00	\$20.00	\$7,500.00
3	EXCAVATION, CLASS 10	CY	1,085	\$10.00	\$10,850.00	\$22.00	\$23,870.00	\$20.00	\$21,700.00
4	BELOW GRADE EXCAVATION (CORE OUT)	CY	230	\$10.00	\$2,300.00	\$40.00	\$9,200.00	\$60.00	\$13,800.00
5	SUBGRADE PREPARATION	SY	5,515	\$15.00	\$82,725.00	\$6.00	\$33,090.00	\$3.25	\$17,923.75
6	SUBGRADE TREATMENT, 15% POZZO STONE	TON	560	\$90.00	\$50,400.00	\$150.00	\$84,000.00	\$50.00	\$28,000.00
7	SUBBASE, MODIFIED, 8"	SY	5,515	\$45.00	\$248,175.00	\$16.00	\$88,240.00	\$14.50	\$79,967.50
8	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	200	\$25.00	\$5,000.00	\$44.00	\$8,800.00	\$70.00	\$14,000.00
9	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC TRUSS, 8"	LF	20	\$100.00	\$2,000.00	\$900.00	\$18,000.00	\$210.00	\$4,200.00
10	SANITARY SEWER SERVICE STUB, PVC, 4"	EA	1	\$5,000.00	\$5,000.00	\$3,800.00	\$3,800.00	\$3,500.00	\$3,500.00
11	STORM SEWER, TRENCHED, RCP, 15"	LF	640	\$90.00	\$57,600.00	\$165.00	\$105,600.00	\$85.00	\$54,400.00
12	STORM SEWER, TRENCHED, RCP, 18"	LF	84	\$95.00	\$7,980.00	\$175.00	\$14,700.00	\$140.00	\$11,760.00
13	STORM SEWER, TRENCHED, RCP, 24"	LF	99	\$110.00	\$10,890.00	\$195.00	\$19,305.00	\$125.00	\$12,375.00
14	REMOVAL OF STORM SEWER, LESS THAN 36"	LF	132	\$25.00	\$3,300.00	\$35.00	\$4,620.00	\$25.00	\$3,300.00
15	SUBDRAIN, HDPE, 6"	LF	2,365	\$15.00	\$35,475.00	\$26.00	\$61,490.00	\$25.00	\$59,125.00
16	SUBDRAIN CLEANOUT, TYPE A-1, 6"	EA	11	\$750.00	\$8,250.00	\$815.00	\$9,000.00	\$700.00	\$7,700.00
17	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6"	EA	9	\$350.00	\$3,150.00	\$715.00	\$6,435.00	\$350.00	\$3,150.00
18	CONNECT TO SUBDRAIN PIPE	EA	1	\$250.00	\$250.00	\$500.00	\$500.00	\$125.00	\$125.00
19	WATER MAIN, TRENCHED, C900 DR18 PVC, RESTRAINED JOINT, 6", WITH TRACER WIRE	LF	20	\$55.00	\$1,100.00	\$110.00	\$2,200.00	\$100.00	\$2,000.00
20	WATER MAIN, TRENCHED, C900 DR18 PVC, STAB JOINT, 8", WITH TRACER WIRE	LF	1,245	\$75.00	\$93,375.00	\$115.00	\$143,175.00	\$75.00	\$93,375.00
21	WATER MAIN, TRENCHED, C900 DR18 PVC, RESTRAINED JOINT, 8", WITH TRACER WIRE	LF	160	\$80.00	\$12,800.00	\$150.00	\$24,000.00	\$85.00	\$13,600.00
22	FITTING, 6"	LB	120	\$15.00	\$1,800.00	\$25.00	\$3,000.00	\$25.00	\$3,000.00
23	FITTING, 8"	LB	1,220	\$20.00	\$24,400.00	\$28.00	\$34,160.00	\$15.00	\$18,300.00
24	WATER SERVICE TRANSFER, COPPER, 1" (SAME SIDE)	EA	13	\$1,500.00	\$19,500.00	\$1,800.00	\$23,400.00	\$2,500.00	\$32,500.00
25	WATER SERVICE TRANSFER, COPPER, 1" (OPPOSITE SIDE)	EA	13	\$2,000.00	\$26,000.00	\$2,800.00	\$36,400.00	\$3,500.00	\$45,500.00
26	WATER MAIN REMOVAL	LF	150	\$20.00	\$3,000.00	\$38.00	\$5,700.00	\$30.00	\$4,500.00
27	VALVE, GATE, DUCTILE IRON (DI), 6"	EA	1	\$1,750.00	\$1,750.00	\$2,500.00	\$2,500.00	\$2,400.00	\$2,400.00
28	VALVE, GATE, DUCTILE IRON (DI), 8"	EA	4	\$2,400.00	\$9,600.00	\$3,400.00	\$13,600.00	\$3,100.00	\$12,400.00
29	FIRE HYDRANT ASSEMBLY	EA	3	\$6,500.00	\$19,500.00	\$10,500.00	\$31,500.00	\$8,000.00	\$24,000.00
30	FLUSHING DEVICE (BLOW OFF), MIN 2 IN DIAMETER, TEMPORARY	EA	3	\$2,000.00	\$6,000.00	\$2,100.00	\$6,300.00	\$2,400.00	\$7,200.00
31	FIRE HYDRANT ASSEMBLY REMOVAL	EA	3	\$1,500.00	\$4,500.00	\$800.00	\$2,400.00	\$800.00	\$2,400.00
32	VALVE BOX REMOVAL	EA	5	\$700.00	\$3,500.00	\$750.00	\$3,750.00	\$400.00	\$2,000.00
33	TAP FEE, 1", REPLACEMENT TAP FOR WATER SERVICE TRANSFER	EA	26	\$500.00	\$13,000.00	\$1,200.00	\$31,200.00	\$450.00	\$11,700.00
34	PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE	EA	2	\$1,000.00	\$2,000.00	\$4,500.00	\$9,000.00	\$2,200.00	\$4,400.00
35	FOUNDATION ROCK	TON	50	\$50.00	\$2,500.00	\$60.00	\$3,000.00	\$60.00	\$3,000.00
36	STORM MANHOLE, SW-401, 48"	EA	1	\$5,000.00	\$5,000.00	\$5,800.00	\$5,800.00	\$6,500.00	\$6,500.00
37	INTAKE, SW-503	EA	1	\$5,000.00	\$5,000.00	\$9,300.00	\$9,300.00	\$10,500.00	\$10,500.00
38	INTAKE, SW-505	EA	6	\$6,500.00	\$39,000.00	\$6,800.00	\$40,800.00	\$10,500.00	\$63,000.00
39	INTAKE, SW-508	EA	1	\$7,500.00	\$7,500.00	\$8,500.00	\$8,500.00	\$11,500.00	\$11,500.00
40	INTAKE, SW-510, MODIFIED, 13' X 5'	EA	1	\$12,000.00	\$12,000.00	\$50,000.00	\$50,000.00	\$35,000.00	\$35,000.00
41	MANHOLE ADJUSTMENT, MINOR	EA	3	\$2,000.00	\$6,000.00	\$2,400.00	\$7,200.00	\$1,600.00	\$4,800.00
42	MANHOLE ADJUSTMENT, MAJOR	EA	2	\$4,000.00	\$8,000.00	\$4,000.00	\$8,000.00	\$3,700.00	\$7,400.00
43	REMOVE INTAKE	EA	5	\$2,500.00	\$12,500.00	\$1,500.00	\$7,500.00	\$800.00	\$4,000.00
44	PAVEMENT, PCC, 7"	SY	4,280	\$70.00	\$299,600.00	\$95.00	\$406,600.00	\$67.00	\$286,760.00
45	PAVEMENT, PCC, 10"	SY	35	\$95.00	\$3,325.00	\$215.00	\$7,525.00	\$100.00	\$3,500.00
46	REMOVAL OF SIDEWALK	SY	25	\$10.00	\$250.00	\$12.50	\$312.50	\$22.00	\$550.00
47	REMOVAL OF DRIVEWAY	SY	835	\$10.00	\$8,350.00	\$12.50	\$10,437.50	\$17.00	\$14,195.00
48	SIDEWALK, PCC, 4"	SY	560	\$45.00	\$25,200.00	\$96.00	\$53,760.00	\$60.00	\$33,600.00
49	SIDEWALK, PCC, 6"	SY	25	\$55.00	\$1,375.00	\$110.00	\$2,750.00	\$85.00	\$2,125.00
50	DETECTABLE WARNING	SF	20	\$50.00	\$1,000.00	\$110.00	\$2,200.00	\$55.00	\$1,100.00
51	DRIVEWAY, PAVED, PCC, 6"	SY	885	\$55.00	\$48,675.00	\$85.00	\$75,225.00	\$70.00	\$61,950.00
52	DRIVEWAY, GRANULAR	TON	250	\$30.00	\$7,500.00	\$45.00	\$11,250.00	\$50.00	\$12,500.00
53	PAVEMENT REMOVAL	SY	4,075	\$10.00	\$40,750.00	\$20.00	\$81,500.00	\$13.00	\$52,975.00
54	TEMPORARY TRAFFIC CONTROL	LS	1	\$15,000.00	\$15,000.00	\$22,000.00	\$22,000.00	\$13,850.00	\$13,850.00
55	PERFORATED SQUARE STEEL TUBE POSTS	EA	12	\$500.00	\$6,000.00	\$550.00	\$6,600.00	\$600.00	\$7,200.00
56	WATERING	MGAL	25	\$50.00	\$1,250.00	\$200.00	\$5,000.00	\$60.00	\$1,500.00
57	SOD	SQ	215	\$65.00	\$13,975.00	\$180.00	\$38,700.00	\$65.00	\$13,975.00
58	SWPPP PREPARATION	LS	1	\$2,000.00	\$2,000.00	\$4,500.00	\$4,500.00	\$1,500.00	\$1,500.00
59	SWPPP MANAGEMENT	LS	1	\$5,000.00	\$5,000.00	\$5,100.00	\$5,100.00	\$2,100.00	\$2,100.00
60	FILTER SOCK, 8"	LF	2,450	\$2.50	\$6,125.00	\$3.00	\$7,350.00	\$2.00	\$4,900.00
61	STABILIZED CONSTRUCTION ENTRANCE	SY	100	\$25.00	\$2,500.00	\$38.00	\$3,800.00	\$15.00	\$1,500.00
62	EROSION CONTROL MULCHING, HYDRO MULCHING	AC	0	\$3,000.00	\$1,350.00	\$5,000.00	\$2,250.00	\$3,000.00	\$1,350.00
63	INLET PROTECTION DEVICE, MAINTENANCE, AND REMOVAL	EA	15	\$200.00	\$3,000.00	\$285.00	\$4,275.00	\$200.00	\$3,000.00
64	MODULAR BLOCK RETAINING WALL	SF	250	\$60.00	\$15,000.00	\$70.00	\$17,500.00	\$50.00	\$12,500.00
65	MOBILIZATION	LS	1	\$174,000.00	\$174,000.00	\$175,000.00	\$175,000.00	\$499,000.00	\$499,000.00
66	MAINTENANCE OF POSTAL SERVICE	LS	1	\$2,500.00	\$2,500.00	\$7,500.00	\$7,500.00	\$3,000.00	\$3,000.00
67	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	\$10,000.00	\$10,000.00	\$7,500.00	\$7,500.00	\$13,200.00	\$13,200.00
68	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS	LS	1	\$10,000.00	\$10,000.00	\$225,000.00	\$225,000.00	\$75,000.00	\$75,000.00
69	CONCRETE WASHOUT	LS	1	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$2,600.00	\$2,600.00
70	CURBSIDE MAILBOX	EA	26	\$1,000.00	\$26,000.00	\$400.00	\$10,400.00	\$800.00	\$20,800.00
TOTAL BASE BID					\$1,621,145.00		\$2,243,035.00		\$1,922,231.25

City of Windsor Heights Regular Business Meeting Minutes
Monday, February 6, 2023 - 6:00 PM
WINDSOR HEIGHTS COUNCIL CHAMBERS - 1133 66th ST

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

Mayor Jones called the meeting to order at 6:00 PM. Council members present: Susan Skeries, Joseph Jones, Michael Libbie, Lauren Campbell and Threase Harms. Staff present: Finance Director/Interim City Administrator Rachelle Swisher, City Clerk Travis Cooke, Deputy City Clerk Adam Strait, Public Works Director Jason Roberts, Interim Police Chief Derek Meyer, Interim Fire Chief Blake Boyle (via Zoom), City Attorney Erin Clanton, and City Engineer Justin Ernst.

2. Approval of the Agenda

Motion by Susan Skeries to approve the Agenda. Seconded by Michael Libbie. Motion passed 5-0.

3. Public Hearing(s):

- A. Public Hearing on Ordinance No. 23-03 - An Ordinance Amending Chapter 22.01 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Public Works Director

Motion by Threase Harms to open the Public Hearing on Ordinance No. 23-03 - An Ordinance Amending Chapter 22.01 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Public Works Director at 6:01 PM. Seconded by Michael Libbie. Motion passed 5-0.

No public comments written or oral.

Motion by Threase Harms to close the Public Hearing on Ordinance No. 23-03 - An Ordinance Amending Chapter 22.01 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Public Works Director at 6:02 PM. Seconded by Susan Skeries. Motion passed 5-0.

- B. Consideration of the First Reading of Ordinance No. 23-03 - An Ordinance Amending Chapter 22.01 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Public Works Director

Motion by Threase Harms to Approve the First Reading of Ordinance No. 23-03 - An Ordinance Amending Chapter 22.01 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Public Works Director. Seconded by Michael Libbie. Motion passed 5-0.

- C. Consideration of Waiving the Second and Third Readings of Ordinance No. 23-03 - An Ordinance Amending Chapter 22.01 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Public Works Director and Move to Adopt

Motion by Threase Harms to Approve waiving the Second and Third Readings of Ordinance No. 23-03 - An Ordinance Amending Chapter 22.01 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Public Works Director and Move to Adopt. Seconded by Michael Libbie. Motion passed 5-0.

- D. Public Hearing on Ordinance No. 23-04 - An Ordinance Amending Chapter 35.03 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Fire Chief

Motion by Joseph Jones to open the Public Hearing on Ordinance No. 23-04 - An Ordinance Amending Chapter 35.03 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Fire Chief at 6:03 PM. Seconded by Susan Skeries. Motion passed 5-0.

No public comments written or oral.

Motion by Threase Harms to close the Public Hearing on Ordinance No. 23-04 - An Ordinance Amending Chapter 35.03 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Fire Chief at 6:04 PM. Seconded by Joseph Jones. Motion passed 5-0.

- E. Consideration of the First Reading of Ordinance No. 23-04 - An Ordinance Amending Chapter 35.03 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Fire Chief

Motion by Threase Harms to Approve the First Reading of Ordinance No. 23-04 - An Ordinance Amending Chapter 35.03 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Fire Chief. Seconded by Joseph Jones. Motion passed 5-0.

- F. Consideration of Waiving the Second and Third Readings of Ordinance No. 23-04 - An Ordinance Amending Chapter 35.03 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Fire Chief and Move to Adopt

Motion by Michael Libbie to Approve Waiving the Second and Third Readings of Ordinance No. 23-04 - An Ordinance Amending Chapter 35.03 of the Code of Ordinances for the City of Windsor Heights Related to the Appointment of the Fire Chief and Move to Adopt. Seconded by Threase Harms. Motion passed 5-0.

4. **Public Forum:**

None.

5. **Consent Agenda:**

Motion by Threase Harms to Approve the Consent Agenda Items A-D. Seconded by Joseph Jones. Motion passed 5-0.

- A. Approve Minutes of the Regular Council Meeting on January 17, 2023

- B. Approve Payment of Claims

- C. Approve Liquor License - Sam's Club #6344 - 1101 73rd St

- D. Approve Liquor License - Mojitos Mexican Grill - 6611 University Ave

6. **New Business:**

- A. Consideration of the Second Reading of Ordinance No. 23-02 - An Ordinance Amending Chapter 55.02 of the Code of Ordinances for the City of Windsor Heights Related to Types and Numbers of Animals Permitted

Motion by Threase Harms to Approve the Second Reading of Ordinance No. 23-02 - An Ordinance Amending Chapter 55.02 of the Code of Ordinances for the City of Windsor Heights Related to Types and Numbers of Animals Permitted. Seconded by Joseph Jones. Motion passed 5-0.

- B. Consideration of Waiving the Third Reading of Ordinance No. 23-02 - An Ordinance Amending Chapter 55.02 of the Code of Ordinances for the City of Windsor Heights Related to Types and Numbers of Animals Permitted and Move to Adopt

Motion by Michael Libbie to Approve Waiving the Third Reading of Ordinance No. 23-02 - An Ordinance Amending Chapter 55.02 of the Code of Ordinances for the City of Windsor Heights

Related to Types and Numbers of Animals Permitted and Move to Adopt. Seconded by Susan Skeries. Motion passed 5-0.

C. Consideration of up to \$7,000 in Reimbursement to Greater Des Moines Sister Cities Representative Ricki King for 2023 Kofu, Japan Delegation Trip

Motion by Michael Libbie to table Consideration of up to \$7,000 in Reimbursement to Greater Des Moines Sister Cities Representative Ricki King for 2023 Kofu, Japan Delegation Trip. Seconded by Susan Skeries. Motion passed 5-0.

D. Consideration of Resolution No. 2023-10 - A Resolution Authorizing the Mayor to Enter An Agreement for the City's Audit for Fiscal years 2022-2023, 2023-2024, and 2024-2025

Motion by Michael Libbie to Approve Resolution No. 2023-10 - A Resolution Authorizing the Mayor to Enter An Agreement for the City's Audit for Fiscal years 2022-2023, 2023-2024, and 2024-2025. Seconded by Threase Harms. Motion passed 5-0.

E. Consideration of the Fiscal Year 2024 Council Goals and Objectives

Motion by Threase Harms to Approve the Fiscal Year 2024 Council Goals and Objectives. Seconded by Susan Skeries. Motion passed 5-0.

F. Discussion of the Fiscal Year 2023-2024 Budget and Capital Improvements Plan (CIP)
The Council discussed the Fiscal Year 2023-2024 Budget and Capital Improvements Plan (CIP).

7. **Reports:**

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

8. **Closed Session:** City Council will convene into closed session pursuant to Iowa Code 21.5(i) to evaluate the professional competency of an individual whose appointment, hiring, performance, or discharge is being considered when necessary to prevent needless and irreparable injury to that individual's reputation and that individual requests a closed session.

A. The Council will Convene into Closed Session

Motion by Threase Harms to Convene into Closed Session at 7:27 PM. Seconded by Susan Skeries. Motion passed 5-0.

B. The Council will Convene into Open Session

Motion by Threase Harms to Convene into Open Session at 7:39 PM. Seconded by Joseph Jones. Motion passed 5-0.

9. **Adjourn**

Motion by Threase Harms to Adjourn the meeting at 7:40 PM. Seconded by Joseph Jones. Motion passed 5-0.

Mike Jones, Mayor

Travis Cooke, City Clerk



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL
FROM: Rachelle Swisher, Finance Director - Interim City Administrator
SUBJECT: Approve Payment of Claims

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

1. Claims Report

CLAIMS REPORT

Vendor Checks: 2/01/2023- 2/14/2023

Page 1
Payroll Checks: 2/01/2023- 2/14/2023

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK#	CHECK DATE
ADVENTURE LIGHTING	POWER PACK		40.01	54914	2/07/23
AIRGAS	OXYGEN		335.07	54992	2/09/23
ALSHARQI, AWS	CEC REFUND ACCESS CODE ISSUES		264.00	54993	2/09/23
AMAZON CAPITAL SERVICES	OFFICE SUPPLIES	291.97		54915	2/07/23
AMAZON CAPITAL SERVICES	INK	78.00	369.97	54994	2/09/23
AMERICAN ALARMS	PSB FIRE ALARM INSPECTION		564.25	54916	2/07/23
AMERITAS LIFE INS. CORP.	DENTAL INS	3,182.48		3992	2/09/23
AMERITAS LIFE INS. CORP.	DENTAL INS	3,049.20	6,231.68	3993	2/09/23
ANIMAL RESCUE LEAGUE OF IOWA	ARL ANIMAL INTAKE		125.00	54917	2/07/23
ARDICK EQUIP. CO. INC.	NO PARKING SIGNS		701.40	54918	2/07/23
ARNOLD MOTOR SUPPLY	SHOP SUPPLIES		314.91	54919	2/07/23
AUREON IT	OFFICE 365 LICENSE	1,712.10		54920	2/07/23
AUREON IT	JAN 0365	2,305.00	4,017.10	54995	2/09/23
BAKER ELECTRIC INC.	FIBER SPLICE		4,702.75	54921	2/07/23
BANKERS TRUST COMPANY	CC FEES	81.64		3987	2/07/23
BANKERS TRUST COMPANY	CC FEES	31.52		3988	2/07/23
BANKERS TRUST COMPANY	CC FEES	129.41		3989	2/07/23
BANKERS TRUST COMPANY	CC FEES	54.94		3994	2/09/23
BANKERS TRUST COMPANY	CC FEES	120.73		3995	2/09/23
BANKERS TRUST COMPANY	CC FEES	132.21		3996	2/09/23
BANKERS TRUST COMPANY	See Vendor Activity Report		4,977.89	54997	2/09/23
BOLTON & MENK	68TH ST NORTH ENGINEERING		22,596.50	54922	2/07/23
BOUND TREE MEDICAL LLC	MEDICAL SUPPLIES	1,424.00		54923	2/07/23
BOUND TREE MEDICAL LLC	MEDICAL SUPPLIES	69.11	1,493.11	54998	2/09/23
BOYLE, BLAKE	JAN CELL PHONE		50.00	54924	2/07/23
BULLZEYE, INC	PSB CLEANING	1,416.00		54925	2/07/23
BULLZEYE, INC	PSB JAN CLEANING	875.00	2,291.00	54999	2/09/23
CAPITAL CITY KUBOTA	FRONT MIRROR		183.34	54926	2/07/23
CAPITAL ONE TRADE CREDIT	SHOP SUPPLIES		201.93	55000	2/09/23
CENTURY LINK	TELEPHONE		357.38	54927	2/07/23
CIEMSD	DIFFICULT AIRWAY COURSE		150.00	55001	2/09/23
CLIVE, CITY OF	IMAGE TREND REPORT MGMT SYSTEM		4,282.30	54928	2/07/23
CITY OF URBANDALE	CROSSING GUARD 28E		982.51	54929	2/07/23
CITY OF WEST DES MOINES	METRO HOME ANNUAL CONTRIBUTION		28,454.00	54930	2/07/23
CLEARFLY	CELL PHONES	178.33		3997	2/09/23
CLEARFLY	CELL PHONES	178.33	356.66	3998	2/09/23
COOKE, TRAVIS	JAN CELL PHONE		50.00	55002	2/09/23
CROW TOW	VEHICLE IMPOUND FEE		300.81	54932	2/07/23
CRYSTAL CLEAR WATER CO.	WATER		19.98	54933	2/07/23
CUSTOM AWARDS	PLAQUE		83.43	54934	2/07/23
CWKK CRIMEDEX	INVESTIGATION SUBSCRIPTION		79.00	55003	2/09/23
DES MOINES REGISTER	NEWSPAPER		66.00	54935	2/07/23
DES MOINES STAMP MFG CO	NOTARY STAMP	29.50		54936	2/07/23
DES MOINES STAMP MFG CO	NOTARY STAMP	33.00	62.50	55004	2/09/23
DES MOINES WATER WORKS	1133 66TH ST	79.83		54937	2/07/23
DES MOINES WATER WORKS	6900 SCHOOL ST	13.39	93.22	55005	2/09/23
DIAMOND OIL CO.	FUEL		1,130.30	54938	2/07/23
DIAMOND VOGEL, INC	PAINT/SUPPLIES SHOP		309.61	54939	2/07/23
DRAKE UNIVERSITY	PHASE 2 STRATEGIC VISION		8,250.00	54940	2/07/23
EASTERN IOWA TIRE	ENLOADER TIRES		1,817.50	54941	2/07/23
EMPLOYEE BENEFIT SYSTEMS	MED INSURANCE		23,517.20	3999	2/09/23
ELECTRICAL ENG. & EQ.	LED LIGHTS		654.60	54942	2/07/23
ELECTRONIC ENG. CO.	TRUCK 5 & 6 RADIOS		2,135.11	54943	2/07/23
FEDERAL TAX DEPOSIT	FED/FICA TAX		21,844.06	3984	2/03/23

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK#	CHECK DATE
FIRE SERVICE TRAINING BUREAU	TESTING FEE		50.00	54944	2/07/23
GALLS INC	CLOTHING ALLOWANCE		61.20	55006	2/09/23
GOVERNMENT FINANCE OFFICERS	ANNUAL DUES		160.00	54945	2/07/23
GOODRICH, WILLIAM	JAN CELL PHONE		50.00	54946	2/07/23
GRAINGER	CEC TOILETS		406.04	54947	2/07/23
GREATER D.M. PARTNERSHIP	CAMPBELL DC TRIP		2,500.00	55007	2/09/23
GRIMES ASPHALT & PAVING	STREET MAINTENANCE SUPPLIES		118.40	54948	2/07/23
HAWKEYE TRUCK EQUIPMENT	TRUCK 6 REPAIRS		1,485.88	54949	2/07/23
O'DONNELL ACE HICKMAN	CEC SNOW SHOVELS		144.87	55008	2/09/23
HOTT OFF THE PRESS	JAN NEWSLETTER		1,654.33	54950	2/07/23
HUTCHINSON SALT CO INC	SALT DELIVERY		25,165.97	54951	2/07/23
HY-VEE ACCOUNTS RECEIVABLE			12.28	55009	2/09/23
ICMA RETIREMENT TRUST	ICMA		615.30	3983	2/03/23
IMAGETek, Inc.	PD RADIX		496.00	4000	2/09/23
IMPACT COMMUNITY ACTION PARTNE	ANNUAL GIVING		1,600.00	54952	2/07/23
INTERSTATE ALL BATTERY	BATTERIES		9.70	54953	2/07/23
IOWA DNR	68TH STREET WATER MAIN PERMIT		142.50	55010	2/09/23
DEPT OF HUMAN SERVICES	FEB GEMT		4,541.34	54954	2/07/23
IOWA ONE CALL	LINE LOCATES		80.30	54955	2/07/23
IRLBECK, MICHAEL	CLOTHING ALLOWANCE		110.41	54957	2/07/23
ISOLVED BENEFIT SERVICES	FLEX - BENEFITS		580.77	3985	2/03/23
JOHNSON, KYLE	JAN CELL PHONE		50.00	54958	2/07/23
KELTEK INCORPORATED	7227 REPAIRS		194.06	55011	2/09/23
KOCH OFFICE GROUP	COPIER LEASE		177.17	54959	2/07/23
LIBBIE, MICHAEL	CHAMBER EVENT REIMBURSEMENT		25.00	54960	2/07/23
LOWE'S	SHOP VICE		122.55	55012	2/09/23
MED COMPASS MOBILE HEALTH SERV	FD PHYSICALS		1,560.00	54961	2/07/23
MEDIACOM BUSINESS	INTERNET		570.00	54962	2/07/23
MENARDS	TOOLS		36.54	54963	2/07/23
MERCY ONE CLIVE PHARMACY	MEDICAL SUPPLIES		316.12	54964	2/07/23
METRO WASTE AUTHORITY	GARBAGE FEES		29,583.88	54965	2/07/23
MEYER, DEREK	JAN CELL PHONE		50.00	54966	2/07/23
MIDAMERICAN ENERGY	801 7RD ST	44.15		4001	2/10/23
MIDAMERICAN ENERGY	1145 66TH ST	471.16		4002	2/10/23
MIDAMERICAN ENERGY	1133 66TH ST	1,632.58		4003	2/10/23
MIDAMERICAN ENERGY	6800 SCHOOL ST	239.59		4004	2/10/23
MIDAMERICAN ENERGY	6800 SCHOOL ST	998.90		4005	2/10/23
MIDAMERICAN ENERGY	6900 SCHOOL ST	119.84		4006	2/10/23
MIDAMERICAN ENERGY	6900 SCHOOL ST	865.00		4007	2/10/23
MIDAMERICAN ENERGY	6900 SCHOOL ST	24.41		4008	2/10/23
MIDAMERICAN ENERGY	7001 UNIV AVE	28.79		4009	2/10/23
MIDAMERICAN ENERGY	6300 UNIV AVE	32.79		4010	2/10/23
MIDAMERICAN ENERGY	951 73RD ST	20.98		4011	2/10/23
MIDAMERICAN ENERGY	1601 73RD ST	15.13		4012	2/10/23
MIDAMERICAN ENERGY	1140 73RD ST	33.48		4013	2/10/23
MIDAMERICAN ENERGY	STREET LIGHTS	3,269.60		4014	2/10/23
MIDAMERICAN ENERGY	6410 HICKMAN RD	30.35		4015	2/10/23
MIDAMERICAN ENERGY	1804 73RD ST	10.00		4016	2/10/23
MIDAMERICAN ENERGY	1443 73RD ST	10.18		4017	2/10/23
MIDAMERICAN ENERGY	6440 HICKMAN RD	85.85		4018	2/10/23
MIDAMERICAN ENERGY	2227 63RD ST	31.71		4019	2/10/23
MIDAMERICAN ENERGY	6739 UNIV AVE	141.98		4020	2/10/23
MIDAMERICAN ENERGY	7290 UNIV AVE	29.96		4021	2/10/23
MIDAMERICAN ENERGY	6540 UNIV AVE	191.37		4022	2/10/23

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK#	CHECK DATE
MIDAMERICAN ENERGY	7116 UNIV AVE	28.26	8,356.06	4023	2/10/23
MUNICIPAL EMERGENCY SERVICES	SCBA FLOW TEST		1,067.73	54967	2/07/23
MURPHY TRACTOR & EQUIP. CO.	SKID LOADER REPAIRS		1,163.46	54968	2/07/23
NAPA AUTO PARTS	7225 LIGHT BULBS		28.00	54969	2/07/23
NISSAN, ANDREW	CLOTHING ALLOWANCE		62.00	54970	2/07/23
O'HALLORAN INTERNATIONAL	TRUCK 6 REPAIRS		199.19	54971	2/07/23
O'REILLY AUTO PARTS	WIPER BLADES		115.21	54972	2/07/23
OMNI BILLING	JAN EMS BILLING		1,254.65	54973	2/07/23
PEARSON, ROB	JAN CELL PHONE		50.00	54974	2/07/23
PITNEY BOWES CREDIT CORP	POSTAGE METER		152.22	3990	2/07/23
QUALITY PEST CONTROL, INC	PEST CONTROL		88.00	54975	2/07/23
RANGEMASTERS TRAINING CTR	CLOTHING ALLOWANCE		170.15	54976	2/07/23
DES MOINES REGISTER	PUBLICATIONS		461.95	54977	2/07/23
RELIASTAR LIFE INS CO	BOWERS/NISSAN	150.00		54978	2/07/23
RELIASTAR LIFE INS CO	BOWERS/NISSAN	150.00	300.00	55013	2/09/23
ROBERTS, JASON	JAN CELL PHONE		50.00	54979	2/07/23
ROETMAN, JOE	CLOTHING ALLOWANCE		56.90	54980	2/07/23
ROY'S MOTOR SERVICE	23-00024 INVESTIGATION		180.00	54981	2/07/23
SAFE BUILDING COMPLIANCE	BUILDING INSPECTIONS		1,035.69	54982	2/07/23
SCOTT'S AUTO GLASS	7227 WINDSHIELD REPAIR		765.00	54983	2/07/23
SIMMERING-CORY, INC	OCT SUPPLEMENT		1,309.00	54984	2/07/23
SKERIES, SUSAN	GDM PARTNERSHIP REIMBURSE		25.00	54985	2/07/23
SPOTFREE CAR WASH	PD CAR WASHES		63.75	54986	2/07/23
STANDARD INSURANCE COMPANY	LIFE/LTD/STD		1,670.28	55014	2/09/23
STAPLES	EXTERNAL HARD DRIVE PD		146.44	55015	2/09/23
STIVERS FORD	7227 VEHICLE REPAIR		884.96	55016	2/09/23
STRAIT, ADAM	JAN CELL PHONE		50.00	54987	2/07/23
SWISHER, RACHELLE	JAN CELL PHONE		50.00	54988	2/07/23
THE SHREDDER	DOCUMENT SHREDDING PD		45.00	54989	2/07/23
UNIVERSITY DM ACE HARDWARE	PARK LIGHT REPAIRS		39.69	55017	2/09/23
VERIZON WIRELESS	CELL PHONES		413.30	3991	2/07/23
CAPITAL ONE	SHOP SUPPLIES		109.02	55018	2/09/23
WEST DES MOINES TRUE VALUE	GFI FOR PARK		214.80	55019	2/09/23
WEX FLEET UNIVERSAL	FUEL		3,885.04	55020	2/09/23
WILLITS, JIM	COLLEGE DRIVE TREE TREATMENT		363.80	55021	2/09/23
ZIMCO SUPPLY CO	ICE MELT		441.00	54990	2/07/23
ZWC CONDOMINIUM ASSOC	PEST CONTROL		51.36	54991	2/07/23
Accounts Payable Total			242,445.34		
Payroll Checks					

001	GENERAL		55,368.69		
110	ROAD USE TAX		7,463.32		
740	STORM WATER		2,076.66		
Total Paid On: 2/03/23			64,908.67		
Total Payroll Paid			64,908.67		
Report Total			307,354.01		
			=====		

**CLAIMS REPORT
CLAIMS FUND SUMMARY**

FUND	NAME	AMOUNT
001	GENERAL	169,366.78
110	ROAD USE TAX	58,161.58
112	EMPLOYEE BENEFITS	31,719.16
303	COLBY PARK	1,653.50
314	UNIVERSITY AVE ST PROJECT	524.50
319	2020 STREET PROJECTS	2,417.80
322	73RD STREET PROJECT	2,830.50
323	68TH ST	7,589.50
329	PUBLIC SAFETY PARKING LOT	750.50
610	SEWER	80.16
670	LANDFILL/GARBAGE	29,434.88
740	STORM WATER	2,825.15

	TOTAL FUNDS	307,354.01

ACCOUNTS PAYABLE VENDOR ACTIVITY

INVOICE NO	LN	DATE	PO NO	REFERENCE	TRACK		1099	NET	CHECK	PD DATE
					CD	GL ACCOUNT				
58 BANKERS TRUST COMPANY										
02072023 1	1	2/07/23		CC FEES		001-620-6405		81.64	3987	2/07/23 E
02072023 2	1	2/07/23		CC FEES		001-620-6405		31.52	3988	2/07/23 E
02072023 3	1	2/07/23		CC FEES		001-620-6405		129.41	3989	2/07/23 E
02082023 4788	1	2/09/23		MEMBERSHIP RENEWAL		001-110-6120		75.00	54997	2/09/23
02092023 1	1	2/09/23		CC FEES		001-620-6405		54.94	3994	2/09/23 E
02092023 2	1	2/09/23		CC FEES		001-620-6405		120.73	3995	2/09/23 E
02092023 3	1	2/09/23		CC FEES		001-620-6405		132.21	3996	2/09/23 E
02092023 3526	1	2/09/23		SHOP SIN RETURN		110-210-6310		181.89-	54997	2/09/23
02092023 3526	2	2/09/23		SHOP SINK		110-210-6310		183.29	54997	2/09/23
02092023 3526	3	2/09/23		SHOP TOOLS		110-210-6507		62.98	54997	2/09/23
02092023 3526	4	2/09/23		STORAGE UNIT 3 MONTHS		001-470-6499		35.73	54997	2/09/23
02092023 3526	5	2/09/23		TRAINING		001-620-6230		310.00	54997	2/09/23
02092023 3534	1	2/09/23		PAPER PRODUCTS/WATER		001-470-6498		33.74	54997	2/09/23
02092023 3534	2	2/09/23		COLORLED PENCILS		001-470-6498		19.42	54997	2/09/23
02092023 3534	3	2/09/23		TRAINING		001-620-6230		329.00	54997	2/09/23
02092023 3534	4	2/09/23		GCMOA		001-620-6240		17.68	54997	2/09/23
02092023 3534	5	2/09/23		CONSTANT CONTACT		001-620-6373		70.00	54997	2/09/23
02092023 3534	6	2/09/23		ZOOM		001-610-6507		29.98	54997	2/09/23
02092023 4796	1	2/09/23		IO NEEDLES		001-160-6498		564.00	54997	2/09/23
02092023 4796	2	2/09/23		CPR CARDS		001-160-6230		55.00	54997	2/09/23
02092023 5514	1	2/09/23		REIMBURSED SHOP W/COP		001-110-6413		1529.72	54997	2/09/23
02092023 5514	2	2/09/23		FD ADOBE		001-150-6506		287.88	54997	2/09/23
02092023 5514	3	2/09/23		FD AWARDS		001-150-6506		416.96	54997	2/09/23
02092023 5514	4	2/09/23		PD AWARDS		001-110-6506		345.98	54997	2/09/23
02092023 7388	1	2/09/23		ADOBE REFUND		001-110-6507		14.14-	54997	2/09/23
02092023 7388	2	2/09/23		SERVICE AWARD		001-110-6506		162.98	54997	2/09/23
02092023 7940	1	2/09/23		RECORDING FEES CLIVE LEARNING		001-620-6405		40.69	54997	2/09/23
02092023 7940	2	2/09/23		HOT COCOA SUPPLIES		001-470-6498		17.08	54997	2/09/23
02092023 7940	3	2/09/23		COUNCIL NAME TAG		001-610-6507		14.90	54997	2/09/23
02092023 7940	4	2/09/23		GCMOA		001-620-6240		21.46	54997	2/09/23
BANKERS TRUST COMPANY								4977.89		
***** REPORT TOTAL *****								4977.89		



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL

FROM: Rachelle Swisher, Finance Director - Interim City Administrator

SUBJECT: Approve Financial Reports

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

1. BALANCE SHEET
2. REVENUE REPORT
3. BUDGET REPORT

BALANCE SHEET

CALENDAR 1/2023, FISCAL 7/2023

ACCOUNT NUMBER	ACCOUNT TITLE	MTD BALANCE	YTD BALANCE
001-000-1110	CASH - GENERAL	167,540.01-	634,287.63
110-000-1110	CASH - RUT	13,522.78	77,147.49
112-000-1110	CASH - EMP BENEFIT FUND	85,745.73-	308,039.78
113-000-1110	CASH - POLICE PENSION	.00	.00
114-000-1110	CASH - POLICE TRUST	.00	28,031.28
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	103,000.56	1,788,774.17
125-000-1110	CASH - TIF	.00	615,819.30
145-000-1110	CASH - URBAN RENEWAL FUNDS	.00	65,387.92
200-000-1110	CASH - DEBT SERVICE	11,373.53	171,534.95
303-000-1110	CASH - COLBY PARK	.00	17,380.95-
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	399.00-	931,274.86-
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	144,848.50
319-000-1110	CASH - 2020 STREET PROJECTS	3,318.00-	235,240.42
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	158.00-	324,037.30
323-000-1110	CASH - 68TH STREET	2,669.00-	48,309.50-
324-000-1110	CASH - 2023 HMA OVERLAY	.00	21,465.50-
325-000-1110	CASH - 2023 PCC PATCHING PROJ	399.00-	21,332.00-
329-000-1110	CASH - PUBLIC SAFETY PARKING L	8,604.00-	20,913.00-
333-000-1110	CASH - DOG PARK UPDATES	.00	.00
347-000-1110	CASH - FLOOD MITIGATION	.00	.00
348-000-1110	CASH - ARPA FUNDS	.00	13,322.83
349-000-1110	CASH - FUTURE STREET PROJECTS	.00	340,547.53
350-000-1110	CASH - EQUIP REVOLVE FUND	.00	2,235.73
350-000-1180	CASH - EQUIP REVOLVE - POLICE	90,280.00-	112,887.40
350-000-1181	CASH - EQUIP REVOLVE - FIRE/EM	.00	339,458.38
350-000-1182	CASH - EQUIP REV - NOT USED	.00	.00
350-000-1183	CASH - EQUIP REV - PUBLIC WORK	.00	531,500.00
350-000-1185	CASH - EQUIP REVOLVE - PARKS	.00	.00
350-000-1186	CASH - EQUIP REVOLVE - CEC	6,479.90-	97,916.69
350-000-1187	CASH - EQUIP REVOLVE - IT DEPT	.00	35,274.53
600-000-1110	CASH - WATER	.00	103,254.44-
610-000-1110	CASH - SEWER	28.40-	5,102.78
670-000-1110	CASH - LANDFILL/GARBAGE	29,392.38-	26,247.98-
740-000-1110	CASH - STORM WATER	28,454.71-	221,416.39
810-000-1110	CASH - REVOLVING FUND	.00	.00
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	CASH TOTAL	295,571.26-	4,901,030.45
001-000-1115	RESERVE CASH - COMM CENTER	.00	.00
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BALANCE SHEET

CALENDAR 1/2023, FISCAL 7/2023

ACCOUNT NUMBER	ACCOUNT TITLE	MTD BALANCE	YTD BALANCE
	RESERVE CASH TOTAL	.00	.00
115-000-1120	PETTY CASH - POLICE FOREITURE	.00	1,000.00
	PETTY CASH TOTAL	.00	1,000.00
001-000-1150	IPAIT - GENERAL	44,858.85	3,370,370.87
110-000-1150	IPAIT - RUT	.00	958,390.59
112-000-1150	IPAIT - EMPLOYEE BENEFITS	.00	772,546.91
121-000-1150	IPAIT - LOCAL OPTION SALES TAX	.00	.00
125-000-1150	IPAIT - TIF	.00	1,051,157.68
145-000-1150	IPAIT - URBAN RENEWAL FUNDS	.00	200,000.00
200-000-1150	IPAIT - DEBT SERVICE	.00	500,000.00
314-000-1150	IPAIT - UNIVERSITY AVE PROJECT	.00	2,535,000.00
319-000-1150	IPAIT - 2020 STREET PROJECTS	.00	1,002,304.89
322-000-1150	IPAIT - 73RD STREET	.00	300,000.00
348-000-1150	IPAIT - ARPA FUNDS	.00	.00
349-000-1150	IPAIT - FUTURE STREET PROJECTS	.00	1,000,000.00
670-000-1150	IPAIT - LANDFILL/GARBAGE	.00	380,491.47
740-000-1150	IPAIT - STORM WATER	.00	1,161,336.95
	IPAIT TOTAL	44,858.85	13,231,599.36
001-000-1160	SAVINGS - 680-5592 - GENERAL	.00	.00
001-000-1161	SAVINGS - KWHB	.00	3,018.53
112-000-1160	SAVINGS - EMP BENEFIT 689-6237	.00	.00
113-000-1160	SAVINGS - 680-2292 - POLICE	.00	.00
114-000-1160	SAVINGS - POLICE TRUST	.00	9,220.43
115-000-1160	SAVINGS - PREF/DEA	.00	3,871.18
	SAVINGS TOTAL	.00	16,110.14
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	250,712.41-	18,268,784.50

REVENUE REPORT

CALENDAR 1/2023, FISCAL 7/2023

PCT OF FISCAL YTD 58.3%

ACCOUNT NUMBER	ACCOUNT TITLE	BUDGET ESTIMATE	MTD BALANCE	YTD BALANCE	PERCENT RECVD	UNCOLLECTED
	GENERAL TOTAL	3,370,180.00	115,056.62	1,889,141.58	56.05	1,481,038.42
	ROAD USE TAX TOTAL	661,500.00	52,016.29	428,494.53	64.78	233,005.47
	EMPLOYEE BENEFITS TOTAL	906,678.00	15,568.74	471,399.49	51.99	435,278.51
	POLICE PENSION TOTAL	.00	.00	.00	.00	.00
	POLICE TRUST TOTAL	10,010.00	.00	9,214.90	92.06	795.10
	POLICE PREFORFEITURE TOTAL	1,002.00	.00	3.60	.36	998.40
	EMERGENCY FUND TOTAL	.00	.00	.00	.00	.00
	LOCAL OPTION SALES TAX TOTAL	1,151,000.00	103,000.56	827,557.29	71.90	323,442.71
	TAX INCREMENT FINANCING TOTAL	2,023,310.00	.00	975,663.64	48.22	1,047,646.36
	URBAN RENEWAL TOTAL	.00	.00	15,000.00	.00	15,000.00-
	DEBT SERVICE TOTAL	5,463,040.00	11,373.53	413,725.76	7.57	5,049,314.24
	COLBY PARK TOTAL	.00	.00	.00	.00	.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
	2017/18 Capital Projects TOTA	.00	.00	.00	.00	.00

REVENUE REPORT

CALENDAR 1/2023, FISCAL 7/2023

PCT OF FISCAL YTD 58.3%

ACCOUNT NUMBER	ACCOUNT TITLE	BUDGET ESTIMATE	MTD BALANCE	YTD BALANCE	PERCENT RECVD	UNCOLLECTED
	UNIVERSITY AVE ST PROJECT TOTA	.00	.00	19,563.50	.00	19,563.50-
	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
	2020 STREET PROJECTS TOTAL	100,000.00	.00	.00	.00	100,000.00
	2020 PCC PATCHING TOTAL	.00	.00	.00	.00	.00
	WAL CREEK STREAM PROJECT TOTA	750,000.00	.00	.00	.00	750,000.00
	73RD STREET PROJECT TOTAL	.00	.00	.00	.00	.00
	68TH ST 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
	PUBLIC SAFETY PARKING LOT 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	360,000.00	.00	359,527.91	99.87	472.09
	FUTURE STREET PROJECTS TOTAL	2,961,526.00	.00	.00	.00	2,961,526.00
	CAPITAL EQUIPMENT FUND TOTAL	357,500.00	1,452.60	10,776.59	3.01	346,723.41

REVENUE REPORT

CALENDAR 1/2023, FISCAL 7/2023

PCT OF FISCAL YTD 58.3%

ACCOUNT NUMBER	ACCOUNT TITLE	BUDGET ESTIMATE	MTD BALANCE	YTD BALANCE	PERCENT RECVD	UNCOLLECTED
	WATER TOTAL	.00	.00	.00	.00	.00
	SEWER TOTAL	.00	.00	.00	.00	.00
	LANDFILL/GARBAGE TOTAL	350,500.00	42.50	164,166.33	46.84	186,333.67
	STORM WATER TOTAL	370,000.00	.00	186,612.93	50.44	183,387.07
	REVOLVING FUND TOTAL	.00	.00	.00	.00	.00
	TOTAL REVENUE BY FUND	=====	=====	=====	=====	=====
		18,836,246.00	298,510.84	5,770,848.05	30.64	13,065,397.95
		=====	=====	=====	=====	=====

BUDGET REPORT

CALENDAR 1/2023, FISCAL 7/2023

PCT OF FISCAL YTD 58.3%

ACCOUNT NUMBER	ACCOUNT TITLE	TOTAL BUDGET	MTD BALANCE	YTD BALANCE	PERCENT EXPENDED	UNEXPENDED
	POLICE TOTAL	2,218,925.00	169,065.61	1,196,507.18	53.92	1,022,417.82
	EMERGENCY MANAGEMENT TOTAL	9,570.00	.00	6,560.59	68.55	3,009.41
	FIRE TOTAL	355,870.00	42,717.75	204,506.65	57.47	151,363.35
	AMBULANCE TOTAL	692,950.00	38,756.88	333,675.20	48.15	359,274.80
	BUILDING INSPECTIONS TOTAL	50,000.00	150.00	42,278.33	84.56	7,721.67
	ANIMAL CONTROL TOTAL	3,000.00	.00	2,851.75	95.06	148.25
		-----	-----	-----	-----	-----
	PUBLIC SAFETY TOTAL	3,330,315.00	250,690.24	1,786,379.70	53.64	1,543,935.30
	ROADS, BRIDGES, SIDEWALKS TOTA	527,201.00	33,006.08	320,700.33	60.83	206,500.67
	STREET LIGHTING TOTAL	67,000.00	3,281.08	28,987.08	43.26	38,012.92
	TRAFFIC CONTROL & SAFETY TOTAL	5,500.00	.00	.00	.00	5,500.00
	SNOW REMOVAL TOTAL	286,449.00	14,191.67	75,812.41	26.47	210,636.59
	OTHER PUBLIC WORKS TOTAL	28,260.00	1,480.12	3,771.54	13.35	24,488.46
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	PUBLIC WORKS TOTAL	914,410.00	51,958.95	429,271.36	46.95	485,138.64
	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	63,700.00	.00	31,827.00	49.96	31,873.00
	PARKS TOTAL	193,721.00	6,861.74	112,085.78	57.86	81,635.22
	COMMUNITY CTR/ZOO/MARINA TOTA	6,650.00	.00	3,284.82	49.40	3,365.18
	SPECIAL EVENTS TOTAL	40,000.00	2,422.60	34,515.03	86.29	5,484.97
	COMMUNITY CENTER TOTAL	170,019.00	11,496.98	105,526.34	62.07	64,492.66
		-----	-----	-----	-----	-----
	CULTURE & RECREATION TOTAL	474,090.00	20,781.32	287,238.97	60.59	186,851.03
	COMMUNITY BEAUTIFICATION TOTA	.00	.00	.00	.00	.00
	ECONOMIC DEVELOPMENT TOTAL	266,372.00	.00	.00	.00	266,372.00
	HOUSING & URBAN RENEWAL TOTAL	32,000.00	.00	.00	.00	32,000.00
		-----	-----	-----	-----	-----
	COMMUNITY & ECONOMIC DEV TOTA	298,372.00	.00	.00	.00	298,372.00
	MAYOR/COUNCIL TOTAL	58,200.00	6,002.17	32,266.07	55.44	25,933.93
	IT DEPARTMENT TOTAL	50,300.00	3,117.73	23,619.70	46.96	26,680.30
	CLERK/TREASURER/ADM TOTAL	672,855.00	34,588.67	417,497.49	62.05	255,357.51
	ELECTIONS TOTAL	1,000.00	.00	.00	.00	1,000.00
	LEGAL SERVICES/ATTORNEY TOTAL	100,000.00	11,300.00	30,217.05	30.22	69,782.95
	OTHER GENERAL GOVERNMENT TOTA	15,000.00	.00	.00	.00	15,000.00
		-----	-----	-----	-----	-----
	GENERAL GOVERNMENT TOTAL	897,355.00	55,008.57	503,600.31	56.12	393,754.69

BUDGET REPORT

CALENDAR 1/2023, FISCAL 7/2023

PCT OF FISCAL YTD 58.3%

ACCOUNT NUMBER	ACCOUNT TITLE	TOTAL BUDGET	MTD BALANCE	YTD BALANCE	PERCENT EXPENDED	UNEXPENDED
	ROADS, BRIDGES, SIDEWALKS TOTA	2,741,310.00	.00	132,555.00	4.84	2,608,755.00
	PARKS TOTAL	.00	.00	.00	.00	.00
	HOUSING & URBAN RENEWAL TOTAL	404,208.00	.00	27,003.75	6.68	377,204.25
	DEBT SERVICE TOTAL	3,145,518.00	.00	159,558.75	5.07	2,985,959.25
	POLICE TOTAL	67,000.00	90,280.00	90,280.00	134.75	23,280.00-
	FIRE TOTAL	6,000.00	.00	4,024.65	67.08	1,975.35
	AMBULANCE TOTAL	.00	.00	.00	.00	.00
	ROADS, BRIDGES, SIDEWALKS TOTA	8,325,137.00	15,547.00	227,810.54	2.74	8,097,326.46
	PARKS TOTAL	.00	.00	55,360.00	.00	55,360.00-
	COMMUNITY CENTER TOTAL	.00	7,932.50	7,932.50	.00	7,932.50-
	IT DEPARTMENT TOTAL	14,000.00	.00	16,710.65	119.36	2,710.65-
	CAPITAL PROJECTS TOTAL	717,854.00	.00	720,733.00	100.40	2,879.00-
	CAPITAL PROJECTS TOTAL	9,129,991.00	113,759.50	1,122,851.34	12.30	8,007,139.66
	WATER TOTAL	.00	.00	.00	.00	.00
	SEWER/SEWAGE DISPOSAL TOTAL	28,250.00	28.40	15,533.46	54.99	12,716.54
	LANDFILL/GARBAGE TOTAL	358,000.00	29,434.88	228,246.28	63.76	129,753.72
	STORM WATER TOTAL	262,994.00	28,454.71	73,123.38	27.80	189,870.62
	ENTERPRISE FUNDS TOTAL	649,244.00	57,917.99	316,903.12	48.81	332,340.88
	TRANSFERS IN/OUT TOTAL	6,143,661.00	.00	15,000.00	.24	6,128,661.00
	TRANSFER OUT TOTAL	6,143,661.00	.00	15,000.00	.24	6,128,661.00
	TOTAL EXPENSES	24,982,956.00	550,116.57	4,620,803.55	18.50	20,362,152.45



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL
FROM: Travis Cooke, City Clerk
SUBJECT: Approve Liquor License Renewal - The Ridgemont - 7400-7460 Hickman Road

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

None



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL

FROM: Travis Cooke, City Clerk

SUBJECT: Approve Liquor License Renewal - Puerto Rico Restaurant - 6611 University Avenue

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

None



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL
FROM: Mike Jones, Mayor
SUBJECT: Approve Re-appointment of John Villotti to the Board of Adjustment

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

None



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL

FROM: Mike Jones, Mayor

SUBJECT: Approve Reappointment of David Ferree and Joe McConville to the Planning and Zoning Commission

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

None



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL

FROM: Rachelle Swisher, Finance Director - Interim City Administrator

SUBJECT: Approve Resolution No. 2023-12 - A Resolution to Set a Public Hearing on FY 2024-2034 CIP

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

1. Resolution No. 2023-12 - A Resolution to Set a Public Hearing on FY 2024-2034 CIP
2. FY24 CIP

RESOLUTION NO. 2023-12

**A RESOLUTION SETTING THE TIME AND PLACE FOR A PUBLIC HEARING FOR
THE PROPOSED CAPITAL IMPROVEMENT PLAN (CIP)
FOR FISCAL YEAR 2024-2034**

WHEREAS, the City Council of the City of Windsor Heights has prepared the Capital Improvement Plan (CIP) for the Fiscal Year 2024-2034; and

WHEREAS, The Code of Iowa requires cities to hold a public hearing on proposed Capital Improvement Plans; and

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Windsor Heights, Iowa, as follows:

Section 1. This Council will meet at the Council Chambers, 1133 66th Street, Windsor Heights, Iowa, on the 6th day of March, 2023, at 6:00 p.m. at which time and place it will hold a public hearing on the proposed Capital Improvement Plan for Fiscal Year 2024-2034.

Section 2. The City Clerk shall post notice of said hearing, which posting shall be at the three public places in said City which have been permanently designated by ordinance, and such posting shall not be less than ten (10) days nor more than twenty (20) days prior to the date set for the hearing.

Passed and approved this 20th day of February, 2023.

Mike Jones, Mayor

ATTEST:

Travis Cooke, City Clerk

WINDSOR HEIGHTS 10 YEAR CIP (FY24-34)										
Type of Project	Project Name	Project Description	Project Reasoning	Anticipated/Planned Construction Year (FY)	Internal Funding Sources				Total Cost	External Funding Sources
					Stormwater	Sanitary	Water	Other (GF, TIF, RUT)		
Full Street Reconstruction	73rd Street - Phase 1	Hickman to University. Includes full depth roadway removal and replacement, pedestrian crossing improvements at CLA, point sanitary sewer repairs, stormwater improvements, and water main improvements as needed.	Poor Pavement Conditions as noted on the PCI. Incorporate recommendations of the Stormwater Management Plan -> Figures #5, #8, #9, and parts of #11.	2024	\$1,366,700	\$896,250	\$57,200	\$9,959,850	\$12,280,000	FFY24 STBG: \$1,000,000 FFY25 STBG: \$500,000 FFY26 STBG: \$750,000 WDMCS: \$132,300
	68th Street South	School St to University Ave. Storm sewer installation, sanitary spot repairs, pedestrian connection to School St and Colby Park.	Poor Pavement Conditions as noted on the PCI. Incorporate recommendations of the Stormwater Management Plan -> portions of Figure #12.	2024	\$407,571	\$428,789	\$21,424	\$2,386,716	\$3,244,500	
	73rd Street - Phase 2	University to Center Street. Includes potential realignment of 73rd St to accommodate pedestrian facilities between Buffalo Road and Center Street, storm sewer improvements, sanitary sewer point repairs.	Poor Pavement Conditions as noted on the PCI. Improve walkability through the corridor.	Unscheduled	\$1,978,630	\$72,357	\$0	\$16,890,712	\$18,941,699	
	67th Street	School St to University Ave. Storm sewer installation, sanitary spot repairs, pedestrian connection to School St and Colby Park.	Poor Pavement Conditions as noted on the PCI. Incorporate recommendations of the Stormwater Management Plan -> portions of Figure #12.	2028	\$407,571	\$414,369	\$21,424	\$2,370,236	\$3,213,600	
	Wilshire Blvd	73rd St to 75th St dead end. Sanitary spot repairs.	Poor pavement conditions as noted on the PCI.	2032	\$0	\$7,210	\$10,712	\$723,678	\$741,600	
	Carpenter Ave	64th Street to 65th Street. Full depth removal and replacement of the road, installation of some storm sewer and subdrains, sanitary sewer spot repairs.	Pavement conditions as noted on the PCI, shorter section of street that may be able to get completed sooner as funding allows. If paired with Elmcrest Ave, may get more favorable bids.	2034	\$117,214	\$105,188	\$16,068	\$863,629	\$1,102,099	
	Elmcrest Ave - Phase 1	64th Street to 65th Street. Full depth removal and replacement of the road, installation of some storm sewer and subdrains, sanitary sewer spot repairs.	Pavement conditions as noted on the PCI, shorter section of street that may be able to get completed sooner as funding allows. If paired with Carpenter Ave, may get more favorable bids.	Unscheduled	\$117,214	\$105,188	\$16,068	\$863,629	\$1,102,099	
	Elmcrest Ave - Phase 2	66th St to 68th St. Full depth removal and replacement of the road, installation of some storm sewer and subdrains, sanitary sewer spot repairs.	Pavement conditions as noted on the PCI, shorter section of street that may be able to get completed sooner as funding allows.	Unscheduled	\$62,521	\$139,719	\$10,712	\$971,547	\$1,184,499	
	Elmcrest Ave - Phase 3	66th Street east to the dead end. Full depth removal and replacement of the road and sanitary sewer spot repairs.	Pavement conditions as noted on the PCI, shorter section of street that may be able to get completed sooner as funding allows.	Unscheduled	\$0	\$63,654	\$16,068	\$620,678	\$700,400	
	Timmons Ave	66th to 68th St	Pavement conditions as noted on the PCI, shorter section of street that may be able to get completed sooner as funding allows.	Unscheduled	\$177,984	\$75,035	\$10,712	\$879,486	\$1,143,217	
	64th Street	University Avenue to Cowles Montessori. Includes sanitary sewer spot repairs, installation of storm sewer and connections into nearest available structures, and water main replacement.	Poor pavement conditions, lack of storm sewer, resident and council request.	Unscheduled	\$375,850	\$561,350	\$453,406	\$3,759,294	\$5,149,900	
Overlay / Mill & Overlay	Plaza Hills Overlay - Phase 1	Marilyn Dr / 76th St from west City limits to College Drive. Mill and overlay the roadway.		2025				TBD	\$1,050,600	
	Forest Court Mill and Overlay	From 64th St to 66th St. Mill off the existing road surface and overlay with a 2" asphalt cap. Full depth patches would be completed as needed.		2027				TBD	\$607,700	
	Plaza Hills Overlay - Phase 2	74th Street from Wilshire Blvd to College Drive. Mill and overlay the roadway.		2028				TBD	\$288,400	
	Mott Ave Mill and Overlay	64th to 65th Street. Mill off the existing road surface and overlay with a 2" asphalt cap. Full depth patches would be completed as needed.		2029				TBD	\$247,200	
	Plaza Hills Overlay - Phase 3	77th Street from Marilyn Drive to College Drive. Mill and overlay the roadway.		2030				TBD	\$185,400	
	64th St Mill and Overlay	South of University Ave. Mill off the existing road surface and overlay with a 2" asphalt cap. Full depth patches would be completed as needed.		2032				TBD	\$988,800	
	Plaza Hills Overlay - Phase 4	Entirety of Luin Lane between both ends of College Drive. Mill and overlay the roadway.		2034				TBD	\$175,100	
	Plaza Hills Overlay - Phase 5	75th St from Wilshire Blvd to College Drive. Mill and overlay the roadway.		Unscheduled				TBD	\$288,400	
	Colby Ave Mill and Overlay	70th to 73rd St. Mill off the existing road surface and overlay with a 2" asphalt cap. Full depth patches would be completed as needed.		Unscheduled				TBD	\$741,600	
	Plaza Hills Overlay - Phase 6	Plaza Circle south of College Drive to the dead end. Mill and overlay the roadway.		Unscheduled				TBD	\$103,000	
	Plaza Hills Overlay - Phase 7	78th St, 79th St, and 80th St between College Drive and Marilyn Drive. 80th Circle north of College Drive. Mill and overlay the roadway. 78th St and 79th St do not require milling, just overlay.		Unscheduled				TBD	\$1,545,000	
Pavement Preservation	66th and Colby PCC Patching	Patching and reconstruction of the intersection to the end of the return radius on each side.	Repair panels of concrete that are in poor condition but that are on a street that otherwise is in good condition. Investing a couple hundred thousand dollars every year into full depth patching will ensure that we don't fall behind on maintenance again.	2025				\$154,500	\$154,500	
	Colby Ave Partial Depth Joint Repairs	66th St to 68th St.Mill out half the depth of existing pavement at failed joints and replace. Similar to work done on 70th Street south of Hickman in 2018.		2025				\$123,600	\$123,600	
	66th Street Joint Sealing	66th Street from Forest Court to Del Matro.		2025				\$61,800	\$61,800	

					Internal Funding Sources				Total Cost	External Funding Sources
Type of Project	Project Name	Project Description	Project Reasoning	Anticipated/Planned Construction Year (FY)	Stormwater	Sanitary	Water	Other (GF, TIF, RUT)		
Stormwater Standalone Projects	Wilshire Blvd Storm Sewer	Replace the storm sewer on private property between Wilshire and Sunrise. Abandon the pipe on private property and install new sewer on Wilshire to connect to 73rd St.	Stormwater Management Plan	2025	\$375,000				\$375,000	
	Washington Ave, 70th St, and Northwest Drive Storm Sewer Improvements	Installation of storm sewer along Northwest Drive, 69th St, Washington Ave, and 70th Street in order to increase carrying capacity. Can be split into two phases as needed.	Stormwater Management Plan, Figure #2	2027	\$1,500,000				\$1,545,000	
	Colby Avenue and Forest Court Storm Sewer Improvements	Increase size and install new storm sewer on Forest Court from 68th Street to 73rd Street. Install storm sewer at the intersection of 70th Street and Colby Avenue.	Stormwater Management Plan, Figure #11	2029	\$1,650,000				\$1,699,500	
Streambank Stabilization	North Walnut Creek Streambank Stabilization - Phase 1	Protect public infrastructure and private structures that are at risk of being damaged by continued erosion of the streambank on North Walnut Creek. Recommendations for projects will come from a study that is currently in the proposal stage.	Protect public infrastructure and private structures that are at risk of being damaged by continued erosion of the streambank on North Walnut Creek. Recommendations for projects will come from a study that is currently in the proposal stage.	Unscheduled	\$500,000				\$515,000	
	North Walnut Creek Streambank Stabilization - Phase 2	Protect public infrastructure and private structures that are at risk of being damaged by continued erosion of the streambank on North Walnut Creek. Recommendations for projects will come from a study that is currently in the proposal stage.	Protect public infrastructure and private structures that are at risk of being damaged by continued erosion of the streambank on North Walnut Creek. Recommendations for projects will come from a study that is currently in the proposal stage.	Unscheduled	\$500,000				\$515,000	
	North Walnut Creek Streambank Stabilization - Phase 3	Protect public infrastructure and private structures that are at risk of being damaged by continued erosion of the streambank on North Walnut Creek. Recommendations for projects will come from a study that is currently in the proposal stage.	Protect public infrastructure and private structures that are at risk of being damaged by continued erosion of the streambank on North Walnut Creek. Recommendations for projects will come from a study that is currently in the proposal stage.	Unscheduled	\$500,000				\$515,000	
	North Walnut Creek Streambank Stabilization - Phase 4	Protect public infrastructure and private structures that are at risk of being damaged by continued erosion of the streambank on North Walnut Creek. Recommendations for projects will come from a study that is currently in the proposal stage.	Protect public infrastructure and private structures that are at risk of being damaged by continued erosion of the streambank on North Walnut Creek. Recommendations for projects will come from a study that is currently in the proposal stage.	Unscheduled	\$500,000				\$515,000	
Flood Reduction and Resiliency	Property buy-outs	possible result of a study that is in the proposal stage.		Unscheduled				TBD	\$4,635,000	
	Levee construction	possible result of a study that is in the proposal stage.		Unscheduled				TBD	\$6,798,000	
	Creek channel clear and grub	possible result of a study that is in the proposal stage.		Unscheduled				TBD	\$11,330,000	
Facilities	Public Works Shop Relocation	Public Works Shop Relocation	Move the shop out of the flood plain as a standalone project.	Unscheduled				TBD	\$2,060,000	
	Construction of a 'Civic Center'	Construction of a 'Civic Center'	Consolidate City Hall and Public Works into one facility. It could also have a 'pocket park' on the campus.	Unscheduled				TBD	\$3,090,000	
Parks and Trails	Dog Park Equipment and Fence Repair	Purchase and install new agility and training equipment in the dog park and new chain link fence along the south side.	Park Master Plan	2023				\$85,000	\$85,000	
	Phase One Park Plan	Includes the following: Grade Phase 1 areas; Construct new tennis courts and remove old courts; Construct pickle ball courts; Construct new parking stalls on east side of site. Includes ADA improvements.	Park Master Plan	2023				\$978,000	\$978,000	
	Phase Two Park Plan	Includes the following: Remove traffic circle and existing playground; Grade phase 2 areas; Install playground equipment, surfacing and surrounding amenities; Construct splashpad and amenities. Includes ADA Improvements.	Park Master Plan	Unscheduled				TBD	\$2,600,000	
	Phase Three Park Plan	Includes the following: Grade Phase 3 areas; Construct food truck plaza and pedestrian promenade; Construct basketball courts; Add north amenity event space; Install landscape improvements; Construct fitness circuit and install equipment. Includes ADA Improvements.	Park Master Plan	Unscheduled				TBD	\$1,200,000	
	Community Garden	Install a community garden.	Council Input	Unscheduled				TBD	\$20,000	
	Lion's Park Refresh and Reconfigure	Remove the existing flower beds, incorporate the topography into a play area for younger kids. Add wayfinding signage and amenities.	Park Master Plan	Unscheduled				TBD	\$463,500	
	Trail Connection over Walnut Creek south of I-235	Connect the trail systems between WDM, DSM, and Windsor Heights. This is currently in the feasibility study stage. Waiting to proceed until recommendations are known regarding the flood reduction and resiliency study.	Park Master Plan	Unscheduled				TBD	\$772,500	
	Water Trails Access Point in Colby Park	Construct an interactive and immersive feature along Walnut Creek in Colby Park as part of the Greater Des Moines Water Trails projects.	Park Master Plan	Unscheduled				TBD	\$1,030,000	
Total Infrastructure Need									\$96,106,213	
			Adopted ?/?/2023 - Resolution 2023-?							



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL
FROM: Rachelle Swisher, Finance Director - Interim City Administrator
SUBJECT: Consideration of Interim Police Chief Contract

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

1. Interim Police Chief Contract

CITY OF WINDSOR HEIGHTS

TEMPORARY EMPLOYMENT AGREEMENT

This TEMPORARY EMPLOYMENT AGREEMENT made and entered into this 20th day of February, 2023, by and between CITY OF WINDSOR HEIGHTS, Iowa (hereinafter called “Employer”), and Travis Ouverson (hereinafter called “Employee”), both who understand as follows:

WHEREAS, Employer has a need for Police Chief services to be performed on an interim basis; and

WHEREAS, it is the desire of the City Council of the City of Windsor Heights, Iowa (hereinafter called “Council”) to provide certain compensation, and set working conditions of said Employee; and

WHEREAS, it is the desire of Employer to retain the services of Employee for an initial at-will term of three (3) months; to establish the job duties of Employee; and to provide limited means for separating or extending services when Employer or Employee may desire to modify or terminate this Agreement.

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

1. Employee agrees to serve in the appointment of Interim Police Chief at the pleasure of the City Administrator. Nothing in this Agreement shall prevent, limit or otherwise interfere with the right of the City Administrator to determine that Employee shall no longer serve as Interim Police Chief, subject only to the provisions set forth in this Agreement.
2. Nothing shall prevent, limit or otherwise interfere with the right of Employee to resign at any time from the interim appointment with Employer, subject only the provisions set forth in this Agreement.
3. Employee’s appointed term shall begin February 21, 2023, through May 21, 2023. This term may be extended, modified, or renegotiated for up to an additional three (3) months based upon the needs of the Windsor Heights Police Department.
4. TERMINATION:
 - a. In the event Employee voluntarily resigns the interim appointment with Employer during a contract term, Employee shall give Employer thirty (30) days’ written notice in advance unless the parties otherwise agree.
 - b. The Employer may terminate this Agreement and the Employee for any reason by providing the Employee thirty (30) days’ written notice.
 - c. The Employer may terminate the Employee for cause without advanced notice.

5. Employee shall serve in the full-time role of Interim Police Chief within the Windsor Heights Police Department responsible for daily operations of the division and oversight of assigned personnel and programs. In performing such services, Employee shall at all times comply with all federal, state, and local statutes, rules, and ordinances applicable to the performance of such services.
6. Employer shall furnish the Employee all equipment, material, manpower and transportation necessary to the efficient performance of the official duties as Interim Police Chief as determined by the City Council.
7. Employee must remain in good standing according to the standards for Windsor Heights Police personnel and be insurable based upon the standards of City providers.
8. Employee shall devote time and talents to the best of his ability and to the best interest of the City of Windsor Heights, in the discharge of duties.
9. Employer agrees that it shall defend, hold harmless, and indemnify the Employee from all demands, claims, suits, actions, errors, or other omissions in legal proceedings brought against Employee in his individual capacity, provided the incident arose while acting within the scope of contracted services with Employer. The Employee shall not be indemnified for any act or omission that is willful and wanton.
10. Employer agrees to pay Employee for services rendered, at a gross bi-weekly salary of \$4,615.39 (\$120,000 annually) beginning February 21, 2023. Should the contract be terminated per the conditions in Paragraph 4, employee will be paid for time worked.
11. Employee shall be entitled to those benefits set below:
 - A. PAID TIME OFF (PTO). Employee shall receive an initial allotment of 40 hours of PTO upon appointment. Upon separation of employment, any unused PTO balance may be cashed out at employee's regular rate of pay.
 - B. HOLIDAYS. Employee is considered to be on-call twenty-four (24) hours a day; however, unless services are needed, the Employee shall not be required to work on those days which have been designated as holidays by the Windsor Heights City Council.
 - C. OVERTIME. Employee shall not receive nor be eligible for overtime pay, or compensatory time off.
 - D. BENEFITS AND LEAVES. Employer will not provide for leaves of absence. The Employee agrees that they will not sign up for Employer benefits, including health and dental insurance. Employee also agrees not to participate in the Employer's group life insurance or disability plans.
 - E. CELL PHONE ALLOWANCE. The Employee will be provided a cell phone or partial reimbursement as provided by City policy.

12. Employee agrees to maintain residency within 60 minutes of the City of Windsor Heights for the duration of the Agreement.
13. This Agreement shall become effective commencing on February 21, 2023 and be governed by the laws of the State of Iowa. If any provision, or any portion thereof, contained in the Agreement is held unconstitutional, invalid or unenforceable, the remainder of this Agreement, or portion thereof, shall be deemed severable, shall not be affected, and shall remain in full force and effect.

IN WITNESS WHEREOF, the City of Windsor Heights has caused this Agreement to be signed and executed as duly authorized by City Council Resolution and duly attested by the City Clerk.

CITY OF WINDSOR HEIGHTS

EMPLOYEE

By: _____
Mike Jones, Mayor

By: _____

Date: _____

Date: _____

ATTEST:

By: _____
Travis Cooke, City Clerk



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL

FROM: Jason Roberts, Public Works Director

SUBJECT: Consideration of Snow Plow Truck Purchases

GENERAL INFORMATION

The City's International Dump Trucks were purchased in 2014 – model year 2014 and are scheduled for replacement as part of the FY23 Equipment Replacement Plan (ERP). I have been working with O'Halloran International for the truck boxes and Hawkeye Equipment to have the trucks outfitted with plowing and salt/sanding equipment.

There are two main providers of dump trucks here in Iowa – O'Halloran and Henderson Truck Equipment. O'Halloran is here in Des Moines and Henderson is in Manchester, Iowa, about a 2 hour drive from Windsor Heights. If we purchase from Henderson, any warranty work or other repairs will have to be done by them because O'Halloran will not work on Henderson trucks. It would be a 4 hour round trip drive to drop off for repair or warranty work. That is if they can do the repairs while we wait, otherwise it would mean another 4 hour round trip drive to pick the truck back up. For this reason, I recommend purchasing our new trucks through O'Halloran. Both trucks are nine years old and are in need of replacement. In the past 3 years, we have spent \$31,481.28 in repairs. If you would like to see the breakdown of these re-occurring repairs, please let me know. The main issues are the hydraulic pumps leaking and electrical problems. The purchase of the 2 new trucks is key to ensuring that we can provide clear streets in the event of snow and ice storms. It is also crucial that our Public Safety Department has clear streets to be able to respond to emergencies.

With the current condition of both of these trucks, there is no guarantee that both trucks will be functioning at the same time. If one truck is down, it causes a significant delay in clearing our city streets. If both trucks were to break down at the same time, the city would have no other option but to seek help from another city or the DOT. As you can imagine, this would mean our streets would not be cleared until many hours or even days after the snow or ice event.

The current lead time on purchasing the trucks is 365+ days. If purchased now, we would not receive the new trucks until March/April of 2024. If the purchases are not made, there could be an estimated cost increase of 5-8% and a wait time of 2+ years.

Cost Breakdown: Truck - \$112,798; Equipment - \$131,088. Total Per Truck - \$243,886

There are funds in the ERP for the purchase of both the trucks and equipment to outfit them.

Estimated resale or trade in value of the vehicles is between \$50,000-\$80,000 depending on how you sell, and the time of year sold.

SUMMARY

It is my recommendation that we purchase 2 new dump trucks from O'Halloran International and have Hawkeye Equipment outfit both trucks. I would also recommend that we trade in truck #5 and keep truck #6. Having this additional truck within our fleet would allow us to clear the streets quicker and have a backup truck in case of warranty work or accidents that may occur.

ATTACHMENTS

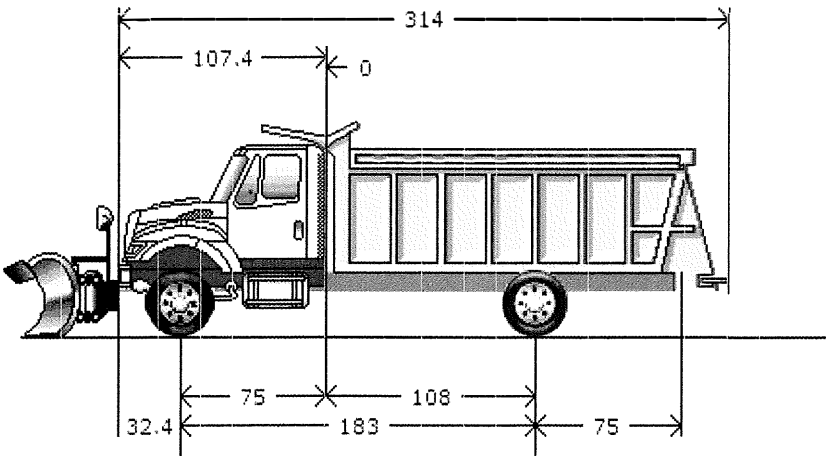
1. Snow Plow Truck Bids

Prepared For:
CITY OF WINDSOR HEIGHTS
Dalton Jacob
1133 66TH STREET
WINDSOR HEIGHTS, IA 50311-
(515)279 - 3664
Reference ID: N/A

Presented By:
O'HALLORAN INTERNATIONAL
Shane Broderick
3311 ADVENTURELAND DRIVE
ALTOONA IA 50009 -
(515)967-3300

Jason,

Here is the pricing for a 2025 International HV507 using the National Sourcewell pricing which is the contract that the State of Iowa has purchased their snow equipment for the last several years. As I had mentioned in our conversation, there will be an emission surcharge for all trucks built after Jan 1 2024. The engine manufacturers have not announced what that amount will be at this time, I have added an amount that we believe will get us close to the amount but the final number could be a little less or a little more. Once we are given the information from the engine manufacturers I can update the number for you. Thank you for the opportunity to quote this to you.



Model Profile
2025 HV507 SFA (HV507)

AXLE CONFIG:	4X2
APPLICATION:	Front Plow and Wing with Spreader
MISSION:	Requested GVWR: 39000. Calc. GVWR: 39000. Calc. GCWR: 80000
DIMENSION:	Wheelbase: 183.00, CA: 108.00, Axle to Frame: 75.00
ENGINE, DIESEL:	{Cummins L9 260} EPA 2021, 260HP @ 2200 RPM, 860 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 260 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 3500 RDS} 6th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Meritor MFS-16-143A} Wide Track, I-Beam Type, 16,000-lb Capacity
AXLE, REAR, SINGLE:	{Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, 200 Wheel Ends Gear Ratio: 6.14
CAB:	Conventional, Day Cab
TIRE, FRONT:	(2) 3 15/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev/mile, 68 MPH, All-Position
TIRE, REAR:	(4) 1 1R 22.5 Load Range G HDR2+ (CONTINENTAL), 491 rev/mile, 75 MPH, Drive
SUSPENSION, REAR, SINGLE:	23,500-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs
PAINT:	Cab schematic 100WK Location 1: 9219, Winter White (Std) Chassis schematic N/A

Code	Description
HV50700	Base Chassis, Model HV507 SFA with 183.00 Wheelbase, 108.00 CA, and 75.00 Axle to Frame.

AXLE CONFIGURATION

1ANA	AXLE CONFIGURATION {Navistar} 4x2
	Notes
	: Pricing may change if axle configuration is changed.

ENGINE

12ESJ	ENGINE, DIESEL {Cummins L9 260} EPA 2021, 260HP @ 2200 RPM, 860 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 260 Peak HP (Max)
12XCS	CARB EMISSION WARR COMPLIANCE Federal, Does Not Comply with CARB Emission Warranty
12WZE	CARB IDLE COMPLIANCE Federal, Does Not Comply with California Clean Air Idle Regulations
12VJH	EMISSION, CALENDAR YEAR {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2023
12UWZ	RADIATOR Aluminum, Cross Flow, Front to Back System, 1228 SqIn, with 1167 SqIn Charge Air Cooler, Includes In-Tank Oil Cooler
	Includes
	: DEAERATION SYSTEM with Surge Tank
	: HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps
	: RADIATOR HOSES Premium, Rubber
12THT	FAN DRIVE {Horton Drivemaster} Two-Speed Type, Direct Drive, with Residual Torque Device for Disengaged Fan Speed
	Includes
	: FAN Nylon
12VAL	AIR CLEANER Dual Element, with Integral Snow Valve and In-Cab Control
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection
12XBM	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls and Starter Lockout, with Ignition Switch Control, for Cummins B6.7 and L9 Engines
12851	PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine Front Mounted
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel

TRANSMISSION

13BDR	TRANSMISSION, AUTOMATIC {Allison 3500 RDS} 6th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway
13WYH	TRANSMISSION TCM LOCATION Located Inside Cab
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS) and Regional Haul Series (RHS), General Purpose Trucks, Construction, Package Number 223
13WVV	NEUTRAL AT STOP Allison Transmission Shifts to Neutral When Service Brake is Depressed and Vehicle is at Stop; Remains in Neutral Until Service Brake is Released
13XAM	PTO LOCATION Dual, Customer Intends to Install PTO at Left and/or Right Side of Transmission
13WDZ	SHIFT CONTROL PARAMETERS {Allison} 3000 or 4000 Series Transmissions, S1 Performance in Primary and Fixed Programming in Secondary

Code	Description
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints
13WET	TRANSMISSION SHIFT CONTROL Column Mounted Stalk Shifter, Not for Use with Allison 1000 & 2000 Series Transmission

CLUTCH

11001	CLUTCH Omit Item (Clutch & Control)
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REAR AXLES, SUSPENSIONS

14051	AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, 200 Wheel Ends . Gear Ratio: 6.14
14VAH	SUSPENSION, REAR, SINGLE 23,500-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs
14WMG	AXLE, REAR, LUBE {EmGard FE-75W-90} Synthetic Oil; 30 thru 39.99 Pints

FRONT AXLES

2ARU	AXLE, FRONT NON-DRIVING {Meritor MFS-16-143A} Wide Track, I-Beam Type, 16,000-lb Capacity
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FRONT SUSPENSIONS

3ADE	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 16,000-lb Capacity, with Shock Absorbers
3WAJ	SPRINGS, FRONT AUXILIARY Air Bag, Right Side Only, Driver Control

CABS, COWLS, BODIES

16030	CAB Conventional, Day Cab
16ZBT	ACCESS, CAB Steel, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab and Extended Cab
16BAM	AIR CONDITIONER with Integral Heater and Defroster
16WBY	ARM REST, RIGHT, DRIVER SEAT
16VKB	CAB INTERIOR TRIM Classic, for Day Cab Includes : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger : DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Overhead Console, Center Mounted : SUN VISOR (2) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Toll Ticket Strap
16WSK	CAB REAR SUSPENSION Air Bag Type
16XXC	COWL TRAY LID
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood
16GED	GAUGE CLUSTER Base Level; English with English Electronic Speedometer Includes : GAUGE CLUSTER DISPLAY: Base Level (3" Monochromatic Display), Premium Level (5" LCD Color Display); Odometer, Voltmeter, Diagnostic Messages, Gear Indicator, Trip Odometer, Total Engine Hours, Trip Hours, MPG, Distance to Empty/Refill for

<u>Code</u>	<u>Description</u>
	: GAUGE CLUSTER Speedometer, Tachometer, Engine Coolant Temp, Fuel Gauge, DEF Gauge, Oil Pressure Gauge, Primary and Secondary Air Pressure
	: WARNING SYSTEM Low Fuel, Low DEF, Low Oil Pressure, High Engine Coolant Temp, Low Battery Voltage (Visual and Audible), Low Air Pressure (Primary and Secondary)
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission
16XJP	INSTRUMENT PANEL Wing Panel
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
16SNP	MIRRORS (2) C-Loop, Power Adjust, Heated, Black Heads and Arms, 7.5" x 14" Flat Glass, Includes 7.5" x 7" Convex Mirrors, for 102" Load Width
	<u>Notes</u>
	: Mirror Dimensions are Rounded to the Nearest 0.5"
16SJW	MIRROR, CONVEX, HOOD MOUNTED {Lang Mekra} (2) Right and Left Sides, Black, Heated, 7.5" Sq.
16VLV	MONITOR, TIRE PRESSURE Omit
16JNT	SEAT, DRIVER {National 2000} Air Suspension, High Back with Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, with 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust
16LUM	SEAT, PASSENGER {National} Non Suspension, High Back with Integral Headrest, Vinyl, with Fixed Back, with Under Seat Storage
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature
16XWJ	WINDSHIELD WIPER BLADES Snow Type

FRAMES

1CAJ	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.866" x 3.622" x 0.437" (276.0mm x 92.0mm x 11.1mm); 456.0" (11582mm) Maximum OAL
1MBP	BUMPER, FRONT Swept Back 15-Degrees, Steel, for use with Front Frame Extensions, Heavy Duty
1MEJ	FRAME DIMPLE Dimple on Left and Right Top Flange of Frame Rail to Reference Rear Axle Centerline
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille
1570	TOW HOOK, FRONT (2) Frame Mounted
1WEV	WHEELBASE RANGE 146" (370cm) Through and Including 195" (495cm)

BRAKES

4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications
	Includes
	: BRAKE LINES Color and Size Coded Nylon
	: DRAIN VALVE Twist-Type
	: GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster
	: PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel
	: PARKING BRAKE VALVE For Truck
	: QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4
	: SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6
4GBM	BRAKE, PARKING Manual Push-Pull Pneumatic Parking Brake
4AZJ	AIR BRAKE ABS {Bendix AntiLock Brake System} 4-Channel (4 Sensor/4 Modulator) Full Vehicle Wheel Control System, with Automatic Traction Control

Code	Description
4XDT	BRAKES, FRONT {Meritor 16.5X6 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 6", 23,000-lb Capacity
4EXV	BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 Sqli
4LAG	SLACK ADJUSTERS, FRONT {Gunitite} Automatic
4WBX	DUST SHIELDS, FRONT BRAKE for Air Cam Brakes
4XDR	BRAKES, REAR {Meritor 16.5X7 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 7", 23,000-lb Capacity per Axle
4EXU	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Sqli Spring Brake
4LGG	SLACK ADJUSTERS, REAR {Gunitite} Automatic
4WDM	DUST SHIELDS, REAR BRAKE for Air Cam Brakes
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM
4EBD	AIR DRYER {Wabco System Saver 1200} with Heater
4VKC	AIR DRYER LOCATION Mounted Inside Left Rail, Back of Cab
4VKJ	AIR TANK LOCATION (2) Mounted Under Battery Box, Outside Left Rail, Back of Cab, Perpendicular to Rail
4722	DRAIN VALVE {Bendix DV-2} Automatic, with Heater, for Air Tank

STEERING

5PSL	STEERING GEAR {Sheppard M110} Power
5708	STEERING COLUMN Tilting
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black

DRIVELINES

6DGG	DRIVELINE SYSTEM {Dana Spicer} 1710, for 4x2/6x2
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EXHAUST SYSTEMS

7BLW	EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Right Side Under Cab, for Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab
7BEV	AFTERTREATMENT COVER Steel, Black
7WCM	EXHAUST HEIGHT 8' 10"
7WDN	MUFFLER/TAIL PIPE GUARD (1) Aluminum
7WAZ	TAIL PIPE (1) Turnback Type

ELECTRICAL SYSTEMS

8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment
	Includes
	: DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab
	: HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel
	: HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever
	: PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light
	: STARTER SWITCH Electric, Key Operated
	: STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector

Code	Description
	: TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature
	: WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever
	: WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted
	: WIRING, CHASSIS Color Coded and Continuously Numbered
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened
8GXD	ALTERNATOR {Leece-Neville AVI160P2013} Brush Type, 12 Volt, 160 Amp Capacity, Pad Mount, with Remote Sense
8RPR	ANTENNA for Increased Roof Clearance Applications
8THJ	AUXILIARY HARNESS 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications
8VUL	BATTERY BOX Steel, with Plastic Cover, 18" Wide, 2-4 Battery Capacity, Mounted Left Side Back of Cab
8TNR	BATTERY CABLES with 36" of Extra Length Coiled and Strapped Near Battery Box
8MSH	BATTERY SYSTEM {Fleetrite} Maintenance-Free, (4) 12-Volt 2640CCA Total, Top Threaded Stud
8HAB	BODY BUILDER WIRING Back of Day Cab at Left Frame or Under Sleeper, Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade
8WTP	COURTESY LIGHT (2) Mounted In Front Map Pocket Left and Right Side
8HAH	ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Combined Trailer Stop, Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake Accommodation Package with Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket
8XNY	HEADLIGHTS Halogen
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on
8XHN	HORN, AIR Single Trumpet, Black, with Lanyard Pull Cord
8541	HORN, ELECTRIC (2) Disc Style
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm
8WBW	JUMP START STUD Remote Mounted
8XHR	POWER SOURCE, ADDITIONAL Auxiliary Power Outlet (APO) with USB Port, Located in the Instrument Panel
8RPT	RADIO AM/FM/WB/Clock/USB Input/Auxiliary Input
8RMZ	SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in Both B-Pillars
8WTK	STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt, Less Thermal Over-Crank Protection
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights
8XGT	TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time

FRONT END

9WBC	FRONT END Tilting, Fiberglass, with Three Piece Construction, for WorkStar/HV
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Code	Description
9WAC	BUG SCREEN Mounted Behind Grille
9HBM	GRILLE Stationary, Chrome
9AAB	LOGOS EXTERIOR Model Badges
9AAE	LOGOS EXTERIOR, ENGINE Badges

SPEEDOMETER, TOOLS, MISC

10021	CHASSIS COATING Corrosion Resistant E-Coat Primer Coating for Single Frame Rails
10AGB	COMMUNICATIONS MODULE Telematics Device with Over the Air Programming; Includes Five Year Data Plan and International 360
10JPA	CUSTOMER IDENTITY for Sourcewell
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100 Includes : PAINT SCHEMATIC ID LETTERS "WK"
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
10SLV	PROMOTIONAL PACKAGE Government Silver Package

FUEL TANKS

15SGJ	FUEL TANK Top Draw, Non-Polished Aluminum, D-Style, 16" Tank Depth, 50 US Gal (189L), Mounted Left Side, Under Cab
15WDG	DEF TANK 7 US Gal (26L) Capacity, Frame Mounted Outside Left Rail, Under Cab
15LNS	FUEL/WATER SEPARATOR {Racor 400 Series} 12 VDC Electric Heater, Includes Pre-Heater, with Primer Pump, Includes Water-in-Fuel Sensor, Mounted on Engine

WHEELS, TIRES - FRONT

27DPN	WHEELS, FRONT {Accuride 29039} DISC; 22.5x9.00 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs, Non-Standard Offset, with .5" Thick Disc
7792545438	(2) TIRE, FRONT 315/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev/mile, 68 MPH, All-Position

WHEELS, TIRES - REAR

28DUK	WHEELS, REAR {Accuride 29169} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and Steel Hubs
7372135444	(4) TIRE, REAR 11R22.5 Load Range G HDR2+ (CONTINENTAL), 491 rev/mile, 75 MPH, Drive

WHEELS MISC OPTIONS

29WAP	WHEEL GUARDS, FRONT {Accuride} for Metric Hub Piloted Wheels with Flanged Mounting Nuts Mounted Between Hub and Wheel
29WAR	WHEEL GUARDS, REAR {Accuride} for Metric Hub Piloted Wheels with Flanged Mounting Nuts, Mounted Between Hub & Wheel and Between Dual Wheels

BODY INTEGRATION

60AAG	BDY INTG, REMOTE POWER MODULE Mounted Inside Cab Behind Driver Seat, Up to 6 Outputs & 6 Inputs, Max 20 amp per Channel, Max 80 amp Total; Includes 1 Switch Pack with Latched Switches
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CodeDescription
Services Section:**WARRANTY**

40128	WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2025A
40VHS	SRV CONTRACT, EXT CMS ENG/AFTR {Cummins} To 60-Month/100,000 Miles (160,000 km), Extended Cummins L9 Engine Coverage, Protection Plan 1 and Aftertreatment, (Truck Application Only)

Description	(US DOLLAR)	Price
Net Sales Price:		\$112,797.65

Please feel free to contact me regarding these specifications should your interests or needs change. I am confident you will be pleased with the quality and service of an International vehicle.

Approved by Seller:

Accepted by Purchaser:

Official Title and Date

Firm or Business Name

Authorized Signature

Authorized Signature and Date

This proposal is not binding upon the seller without
Seller's Authorized Signature

Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

The limited warranties applicable to the vehicles described herein are Navistar, Inc.'s standard printed warranties which are incorporated herein by reference and to which you have been provided a copy and hereby agree to their terms and conditions.



Quote

Quote ID:	25431
Quote Date:	1/30/2023

Phone: (515) 289-1755
www.hawkeyetruckequipment.com

5800 NW 2ND Street
P.O. Box 3283
Des Moines, IA 50316-0283

Quote Expires 30 Days from
Quote Date

Sold To: 532000

Ship To:

O'HALLORAN INTERNATIONAL
P O BOX 1804
DES MOINES IA 50305-1804

O'HALLORAN INTERNATIONAL
P O BOX 1804
DES MOINES IA 50305-1804

Vehicle Make	Vehicle Model	Vehicle Year	Single/Dual	Cab to Axle	Vin #

We Are Pleased To Quote You The Following

Attention: Jason Roberts/Shane

Phone: (515) 967-3300

1 - Monroe RDS Radius-Dump-Spreader Body

- 10' In Length
- 96" Wide
- 44" Side Height
- 50" Tailgate Height
- Front, Sides, and Tailgate Constructed From 3/16 AR-400 Steel
- Sides are Brake Formed Radius of 43"
- Boxed Top Rail is 3/16" Formed Channel
- Front of Body is Sloped to Accommodate a Headlift Cylinder With Partial Doghouse and Conforms to the Radius of the Body
- Electric/Air Trip Tailgate
- Floor is 1/4" With 3/16" Removable Chain Guards
- 100% Continuously Welded Body
- 34" Conveyor w/ 1 1/2" x 1/2" Pintle Chain on 4 1/2" Centers and a 28,000lb Tensile Strength per Strand
- (2) 6:1 Spur Gearboxes and High Torque/Low Speed Hydraulic Motor
- Rear Discharge Conveyor
- 8-Tooth Sprockets Keyed to the 2" Drive and Idler Shafts
- Heavy Duty Conveyor Drive Shaft
- Dust Sealed Self-Aligning Four Bolt Flange Bearings
- Heavy Duty Adjustable Idler Assy
- Stainless Steel Chain Slack Adjusters
- Rear Hitch Plate w/ Receiver & 7-Way Electrical Plug
- Receiver Hitch Mounted Spreader
- 18" Poly Spinner Disc
- Telescopic 16-Ton Class 60 Hoist, Trunnion Mounted
- AR-400 Drop In Steel Floor Cover Kit
- 1/2 Cabshield w/ 4 Corner LED Strobe Lights
- (2) Oval Cutouts In Rear Corner Posts
- LED S/T/T Lights and Amber Strobe Lights in Rear Corner Post
- Patented Wiring Harness
- Fold Down Ladder At Driver's Side Rear
- Full Length Fenders
- Powder Coated Orange
- Completely Installed, F.O.B Des Moines, IA

1 - Monroe Front Snowplow Model MP41R11-ISCT-MB1

- 11' In Length



Quote

Quote ID:	25431
Quote Date:	1/30/2023

Phone: (515) 289-1755
www.hawkeyetruckequipment.com

5800 NW 2ND Street
P.O. Box 3283
Des Moines, IA 50316-0283

Quote Expires 30 Days from
Quote Date

- 41" Moldboard Height
- Integral Shield Style Moldboard
- Dual Compression Trip Spring Assemblies
- One Piece AS69 10 Gauge Steel Roll Framed Moldboard
- (6) 1/2" x 3.5" x 1/2" Semi-Circle Is Fabricated From A36 Steel
- Monroe Built In Level Lift Assembly
- (2) 3" x 10" Power Reverse Cylinder With Cushion Valve Protection
- (1) 4" x 10" Single Acting Lift Cylinder
- Polk Co Style Front Quick Hitch With Steel Bumper
- Monroe MC6000 Snowplow Portion Quick Hitch
- Moldboard And Frame To Be 100% Continuously Welded
- 12" Rubber Snow Deflector
- Quick Couplers
- Orange Poly Side Markers
- Screw Adjustable Parking Jack
- Boss LED Snowplow Lights Installed On Truck's Fender Mounted Mirrors
- Snowplow Lights Will Be Wired To An International Dash Mounted Switch
- Moldboard Will Be Shotblasted and Powder Coated Orange
- The Pushframe Will Be Shotblasted Powder Coated Black
- Add Right Hand Mail Box Trim
- 5/8" x 8" Cutting Edge
- Cushion Valve

1 - Liquid Dispensing Hydraulic Closed Loop system

- 7 Gallons Per Minute
- Flow Meter
- 240 Gallon Capacity
- Stainless Steel Mount Kit Mounted Behind The Cab
- Nozzle Kit
- Flusher Kit
- Blink Flic Kit and Cross Over
- Quick Disconnect Kit

1 - Hawkeye Hydraulic System

- Eaton 6.0 Cubic Inch Front Mounted Piston Pump
- Live Hydraulics To Run Off The Front Crank Shaft
- Electric Pump Shut Off
- Driveline With Yoke And Flange
- 40 Gallon Stainless Steel Side Mount Reservoir With Sight Gauge And In Tank Filter
- Filter/Lubricator/Regulator Installed
- Hydraulic Manifold Valve Mounted In A Stainless Steel Enclosure
- Air Operated Valve
- Valve To Operate A SA Dump Lift Cylinder, DA Section For Side Tilt, SA For Plow With Float, DA For Plow Angle, Electric Suctions For Sander With Ground Speed, Liquid For Prewet And Anti-ice To Be Added Later
- Valve Is Proportional
- Valve Has Stroke Limiters
- Valve Has Manual Over Rides
- Air Controls Mounted In The Cab
- Joystick For The Plow
- Single Stick With Safety Interlock For Dump Body
- Single Stick With Safety Interlock For Side Tilt



Quote

Quote ID:	25431
Quote Date:	1/30/2023

Phone: (515) 289-1755
www.hawkeyetruckequipment.com

5800 NW 2ND Street
P.O. Box 3283
Des Moines, IA 50316-0283

Quote Expires 30 Days from
Quote Date

- Add (3) Work Lights To Customer Specified Location

TOTAL:

\$131,088.00

**Options Not Included In Price

- Heavy-Duty Hitch And Brake Controller Add \$1,750.00
- Go To RDS Body Deduct \$1,500.00

Due To Chassis Delivery Times, Customers Have A Couple Options:

- 1) Lock In Equipment Price By Ordering Equipment And Take Delivery. If Truck Is Not Provided Within 60 Days of Equipment Landing, Dealer or Customer Is Responsible For Paying For Equipment.
- 2) Wait To Order Equipment Based On Truck Delivery Date. Due To Fluctuating Prices and Lead Times, Neither Can Be Guaranteed Until Equipment Is Ordered.

Thank You For The Opportunity,
Nick Hermann

Order Sub-Total	\$0.00
Sales Tax	\$0.00
Order Total	\$0.00
Payments	\$0.00
Total Due	\$0.00



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL

FROM: Jason Roberts, Public Works Director

SUBJECT: Consideration of Resolution No. 2023-13 - A Resolution Authorizing the Execution of an Agreement between the City of Windsor Heights and the City of West Des Moines for Street Sweeping Services

GENERAL INFORMATION

Attached is a resolution to approve the updated 28E agreement with the City of West Des Moines for street sweeping services. Changes include the cost per hour for routine street sweeping (\$135 per hour) and the cost for emergency street sweeping (\$150 per hour) outside of normal business hours.

During a normal year, we utilize the sweepers 4 times per year for a total of 113 hours. The new charges per hour will mean an increase in street sweeping costs of \$4,520 for the year.

SUMMARY

The City of West Des Moines has been performing our street sweeping since 2011 and this is the first time there has been an increase in the rates. They do an excellent job, and staff recommends that we approve the updated 28E agreement.

ATTACHMENTS

1. Resolution No. 2023-13 - A Resolution Authorizing the Execution of an Agreement between the City of Windsor Heights and the City of West Des Moines fo
2. Street Sweeping Services 28E - Windsor Heights 2023

RESOLUTION NO. 2023-13

**A RESOLUTION AUTHORIZING THE EXECUTION OF AN AGREEMENT
BETWEEN THE CITY OF WINDSOR HEIGHTS AND THE CITY OF WEST DES
MOINES FOR STREET SWEEPING SERVICES**

WHEREAS, the City wishes to provide its citizens with clean and sanitary street conditions, and;

WHEREAS, the City of Windsor Heights has worked diligently to maintain the curbs, gutters and streets within the City, and;

WHEREAS, the City of West Des Moines has agreed to enter into a 28E agreement with Windsor Heights to provide street sweeping services.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Windsor Heights, Iowa, does hereby authorize the Mayor to execute the attached 28E agreement with the City of West Des Moines.

Passed and Approved this 20th Day of February, 2023

Mike Jones, Mayor

ATTEST:

Travis Cooke, City Clerk

Prepared by: Jessica D. Grove, Assistant City Attorney, PO Box 65320, West Des Moines, IA 50265-0320 (515) 222-3613

Return to: City Clerk, City of West Des Moines, PO Box 65320, West Des Moines, IA 50265-0320

SPACE ABOVE THIS LINE FOR RECORDER

City of West Des Moines, Iowa
City of Windsor Heights, Iowa
Chapter 28E Agreement for Street Sweeping Services

WHEREAS, the above named entities each have responsibilities for the cleaning or sweeping of streets within their respective jurisdictions; and

WHEREAS, the sharing of the resources of the Public Services Department of the City of West Des Moines by these entities would assist in the efficient and economic provision of these street sweeping services; and

WHEREAS, the City of West Des Moines, Iowa (hereinafter referred to as “West Des Moines”), and the City of Windsor Heights, Iowa (hereinafter referred to as “Windsor Heights”) (collectively referred to as “the Parties”), desire to enter into this Agreement, pursuant to Chapter 28E of the Code of Iowa, to provide for the terms and conditions for the use of the services and equipment of the West Des Moines Public Services Department (hereinafter referred to as “Department”) within the city limits of Windsor Heights.

NOW, THEREFORE, BE IT AGREED AS FOLLOWS:

I. Purpose

1. The purpose of this Agreement is to establish terms and conditions for the provision of street sweeping services (“Services”) by the Department within the corporate limits of Windsor Heights in order to more efficiently and economically provide these services in both communities.

2. The Agreement is a voluntary undertaking of the Parties. It is not the intention of the Parties to create a new legal entity.

II. Duration

1. This Agreement shall be approved by the City Councils of West Des Moines and Windsor Heights. Said approval shall be by resolution. Said resolution shall authorize the Mayor of each party to execute this Agreement on behalf of that party. Upon approval by each party as provided herein, the Agreement shall be electronically filed with the Secretary of the State of Iowa as provided by Iowa Code Section 28E.8.
2. This Agreement shall remain in force on an annual basis for the given Fiscal Year. The Agreement shall automatically renew based upon these same terms and conditions, unless otherwise agreed to by the Parties at least ninety (90) days prior to the end of the given Fiscal Year.

III. Services and Responsibilities

1. The Department will provide routine street sweeping services in Windsor Heights. The Department will also provide additional street sweeping services in Windsor Heights, if mutually agreed to by the Parties. Windsor Heights shall submit any requests for additional street sweeping services in writing to West Des Moines.
2. West Des Moines will utilize two (2) Elgin Whirlwind vacuum sweepers to complete the street sweeping in Windsor Heights. Only trained West Des Moines employees will operate the street sweepers. It will be the responsibility of Windsor Heights to properly dispose of all street sweeping debris generated within its jurisdiction. Any costs incurred by West Des Moines in disposing of street sweeping debris from Windsor Heights have not been included in this Agreement and West Des Moines retains the ability to seek separate reimbursement of those costs from Windsor Heights.

IV. Resolution of Conflicts

Any policy issues or conflicts that arise from this Agreement shall be resolved by the two (2) respective Public Works/Services Directors of the Parties or their designees.

V. Financial Agreement

1. For the above-described services in each respective Fiscal Year covered by this Agreement, West Des Moines will invoice Windsor Heights annually for the Services. The rate will be determined by West Des Moines Public Services Director and will be calculated on an hourly basis for routine street sweeping performed. For the initial Fiscal Year of this Agreement (2023/2024) ("Initial

Term”), the hourly rate will be at a cost of one-hundred thirty-five dollars (\$135.00) per hour. For any additional requests by Windsor Heights for additional street sweeping services in excess of routine sweeping, West Des Moines will invoice Windsor Heights on an hourly basis with a two (2) hour minimum, starting from the time the street sweeping equipment departs from the West Des Moines Public Services facility and concluding at the time the equipment returns to the facility. Request for Emergency Street Sweeping – those that are outside of normal business hours (Monday through Friday 7:30 a.m. to 3:30 p.m.) and/or on a West Des Moines City holiday, will be billed at a higher rate. For the Initial Term of this Agreement, the hourly rate for Emergency Street Sweeping requests will be at a cost of one hundred and fifty dollars (\$150.00) per hour. Windsor Heights shall pay the invoice in full to West Des Moines within thirty (30) days of the mailing of the invoice.

2. For subsequent terms, the hourly rate(s) will remain the same as the Initial Term, unless the Parties mutually agree to an increased rate. If the Parties agree to an increased rate, the Parties shall amend the Agreement, if necessary, to address the fees due during any future term.

VI. Cancellation of the Agreement

This Agreement may be cancelled by either party with a one hundred twenty (120) day written notice from one Public Works/Services Director to the other. All notices under this Agreement are to be in writing and are deemed as given when deposited in the United States Post Office. Notices to the City of West Des Moines shall be addressed to Public Services Director, City of West Des Moines, 8850 Grand Avenue, West Des Moines, Iowa 50266. Notices to the City of Windsor Heights shall be addressed to Public Works Director, City of Windsor Heights, 1133 66th Street, Windsor Heights, Iowa 50324. If during the term of this Agreement either party shall change the address of its respective Public Works/Services Director, it shall notify the other of said new address.

VII. Indemnification

To the extent permitted by law, each party shall defend, indemnify and hold the other party harmless from and against any and all claims, demands, causes of action, liability, loss, damage, or injury (“claims”), both to person and property, arising out of or related to this Agreement, to the extent such claims are attributable to the negligent or willful misconduct of the indemnitor; provided, indemnitee gives the indemnitor prompt notice of any such claims and all necessary information and assistance so that indemnitor, at its option, may defend or settle such claims and indemnitee does not take any adverse position in connection with such claims. In the event that any such liability, loss, damage or injury is caused by the joint or concurrent negligence of both parties, the loss, expense or claim shall be borne by each party in proportion to its negligence. The

City shall maintain the defenses available to it pursuant to Chapter 670 of the Code of Iowa, as it now exists or may be amended.

VIII. Amendments

Amendments to the Agreement may be made by mutual agreement in writing by the Parties' respective Public Works/Services Directors, subject to approval by the City Council of each of the Parties.

IX. Administrator

Pursuant to Iowa Code Section 28E.6, the West Des Moines Public Services Director shall be the administrator of this Agreement.

IN WITNESS THEREOF, both the City of West Des Moines and the City of Windsor Heights have caused this Agreement to be executed in three (3) counterparts, each of which shall be considered an original, this ____ day of _____, 2023.

CITY OF WEST DES MOINES, IOWA

By _____
Russ Trimble, Mayor

ATTEST:

Ryan Jacobson
City Clerk

CITY OF WINDSOR HEIGHTS, IOWA

By _____
Mike Jones, Mayor

ATTEST:

Travis Cooke, City Clerk



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL
FROM: Adam Strait, Deputy City Clerk
SUBJECT: Discuss Spring Cleanup Day and City Wide Garage Sales

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

None



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL
FROM: Rachelle Swisher, Finance Director - Interim City Administrator
SUBJECT: Review FY 23-24 Budget

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

1. Budget Memo FY24

BUDGET MEMO

FY 23-24

The FY24 proposed budget was presented to the City Council on February 6, 2023. The following is a summary of the key budget elements:

➤ Revenue Highlights

- Total revenues are estimated at \$11,575,036 an overall increase of 11.36%
- Road Use Tax estimated increase of .07% which is a minor increase of \$500
- Local Option Sales Tax – LOST funds are to be dedicated 50% to reducing property taxes and 50% for any other use.
 - Community Center \$ 30,000
 - Funding the Equipment Replacement Plan \$ 355,000
 - Unallocated FY24 (\$727,000) & FY23 (\$361,820) \$1,088,820
 - Total \$1,473,820

➤ Recommended No Change to the Levy

- As proposed – no change to the total tax levy rate of 13.76541 per thousand of taxable valuation

➤ Department Budgets

- No major changes
- Minor additions include:
 - Salaries and Benefits for new positions created for both the Police Chief and Fire Chief
 - West Com Dispatch costs
 - Monthly newsletter expenses

➤ Next Steps

- February 20, 2023 – Set Maximum Property Tax Public Hearing and CIP Public Hearing for 3/6/23.

ALL DATES BELOW ARE DEPENDENT ON WHAT THE LEGISLATURE DOES WITH PROPERTY TAXES. Updates will be sent if/when changes are necessary to the dates.

- March 6, 2023 – Hold Maximum Property Tax Hearing; Approve Resolution approving Maximum Property Tax; Hold Capital Improvements Plan Public Hearing; Approve Resolution for Capital Improvements Plan; Set Budget Public Hearing for 3/20/23.
- March 20, 2023 – Hold Budget Public Hearing; Approve Resolution adopting Final FY24 Budget.



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL

FROM:

SUBJECT: Mayor, Council Reports and Committee Updates, and Administration Reports

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

None



STAFF REPORT
CITY COUNCIL
February 20, 2023

TO: CITY COUNCIL
FROM: Mike Jones, Mayor
SUBJECT: Mayor's Report

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

1. Mayors Report 2-16-23

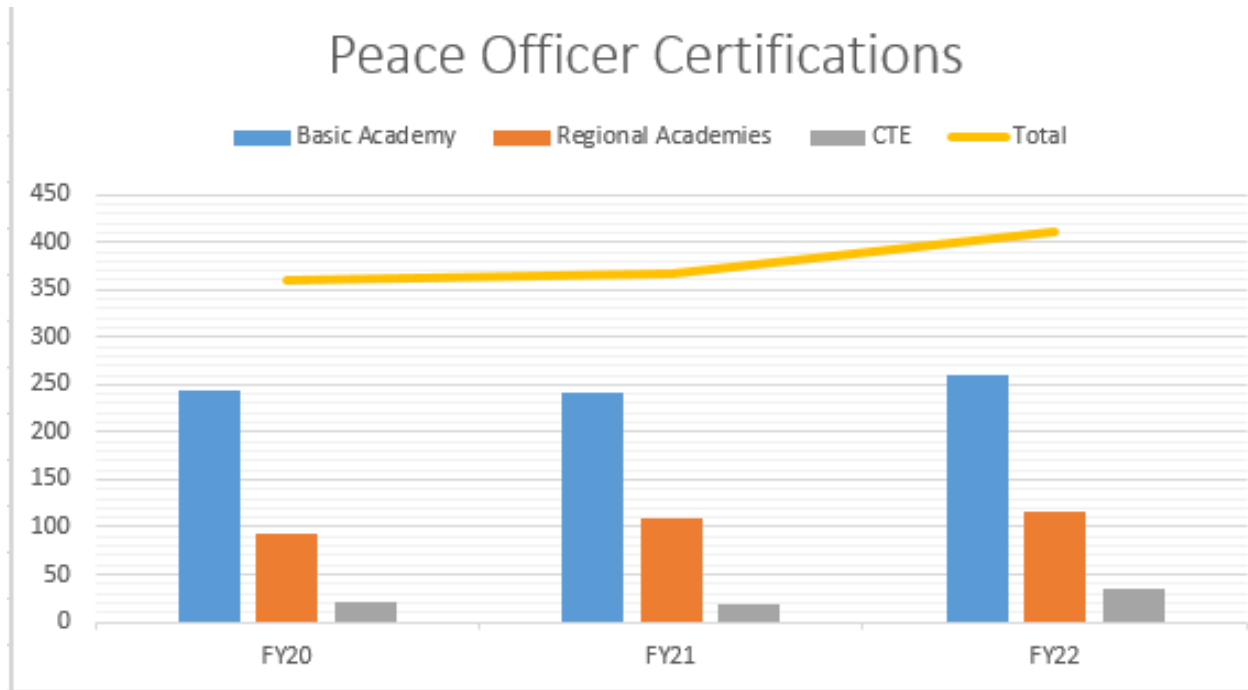


MAYOR'S REPORT

Report Covers January 13th – February 16th

- I had mentioned in my last report that I had called the property manager of the Windsor Heights Town Center about some concerns regarding the lighting at the building. Those issues have all been addressed by Elwell.
- An ongoing point of contention at the Des Moines MPO is consideration of funding for “non-transportation” projects and who should be actually considered for funding. I have attended 2-3 policy meetings and a four-hour work session to discuss these issues, primarily raised by a Des Moines City Councilor and the discussion is ongoing. The catalyst for these meetings/discussions was a \$40,000 award to the Story County Housing Trust Fund.
- On January 26th Councilors Harms, Jones, Campbell, Clerk Cooke and Deputy Clerk Strait and I attended the Greater Des Moines Partnership Dinner. It is, as always, an excellent networking event and Erik Weihenmayer gave an incredible speech.
- On February 4th Councilors Skeries, Campbell, Deputy Clerk Strait and I attended the BRAVO Gala. As always, the work that BRAVO does in supporting the arts, especially youth arts, is a worthy cause.
- On February 6th, the ad-hoc parks committee met regarding the most recent updates on Colby Park. Primarily, that the number of courts proposed for basketball/pickleball/tennis has been condensed from three to two.
- Metropolitan Advisory Committee (MAC) met and the primary order of discussion was, as it typically is during Legislative Session, what sort of legislation could potentially impact local jurisdictions. A great way to keep up with the legislature on the subject of local government is to subscribe or review Legislative Link from the Iowa League of Cities.
<https://iowaleague.org/resource/legislative-link/>
- On February 16th Councilors Skeries, Jones and I attended the launch of the Central Iowa Basic Income Pilot Project, now known as UpLift, at the Harkin Institute at Drake University. It was an extremely informative presentation by the team from the University of Pennsylvania on how the project will implemented and how it partners with Des Moines University and the Harkin Institute. We learned that while this is not the first income pilot (it's the 32nd), it's the first one that encompasses urban, suburban and rural areas all at once. Humorously, Windsor Heights would typically be considered a “rural” town due to its population but we were informed that there will be an asterisk next to our name, due to our unique location.

- I attended the meeting of the Polk County Emergency Management Commission virtually and the primary pieces of business were the FY 23/24 budget and 28E agreement for the administration of emergency services. Both passed unanimously.
- On February 8th, I attended the Mayor's Meeting (MILAG) at the Iowa Law Enforcement Academy (ILEA). Sherry Poole, a Windsor Heights resident, serves as the interim director of the Academy and holds a number of positions, not just interim director. It was encouraging to hear that the certification numbers were the highest they have been in years and while that isn't a national trend, the number of law enforcement certifications in Iowa is up. See below:



- To hire the public works director, an ad-hoc committee was created involving the public works committee chair, volunteering city council members, the city administrator, BMI and other interested parties. I plan on us following a hiring process similar for police/fire chief as we did for the public works director. There, volunteering council members, myself and the city administrator narrowed down resumes and a large committee including the public works committee chair, council members, city administrator and BMI conducted formal interviews. We then made a recommendation to the administrator, who made a recommendation to Council, etc. This will be somewhat similar, the difference being that we'll have to pull in members of the public safety committee as the chair of committee was actually PSD McCluskey and we will also need citizen input. Next week, a small group will look through resumes and see if there are appropriate candidates to refer to the larger committee, etc.

FFY 1995-2026

Awarded Funding vs. Assessment Ratio

	STP Award	TAP Award	Total STBG/TAP Award	Total Assessment*	Benefit Ratio
Altoona	\$ 4,610,000	\$ 1,656,560	\$ 6,266,560	\$293,112	21
Ankeny	\$ 18,889,096	\$ 4,735,725	\$ 23,624,821	\$916,244	26
Bondurant	\$ 144,500	\$ 1,881,000	\$ 2,025,500	\$82,526	25
Carlisle	\$ 2,277,000	\$ 308,548	\$ 2,585,548	\$79,880	32
Clive	\$ 8,011,600	\$ 356,790	\$ 8,368,390	\$309,830	27
Dallas County	\$ 232,000	\$ -	\$ 232,000	\$50,728	5
DART	\$ 25,704,000	\$ 415,000	\$ 26,119,000		
Des Moines	\$ 109,034,096	\$ 11,099,569	\$ 120,133,665	\$4,342,129	28
Grimes	\$ 4,600,000	\$ 150,000	\$ 4,750,000	\$176,066	27
Johnston	\$ 7,354,087	\$ 811,076	\$ 8,165,163	\$327,279	25
Mitchellville	\$ 400,000	\$ -	\$ 400,000	\$33,119	12
Norwalk	\$ 737,500	\$ 200,000	\$ 937,500	\$186,920	5
Pleasant Hill	\$ 1,617,047	\$ -	\$ 1,617,047	\$162,044	10
Polk City	\$ 893,000	\$ -	\$ 893,000	\$70,001	13
Polk County	\$ 39,043,385	\$ 2,868,502	\$ 41,911,887	\$469,615	89
Urbandale	\$ 11,947,075	\$ 1,685,044	\$ 13,632,119	\$789,528	17
Warren County	\$ 192,000	\$ -	\$ 192,000	\$87,108	2
Waukee	\$ 6,711,400	\$ 222,800	\$ 6,934,200	\$254,806	27
West Des Moines	\$ 28,735,475	\$ 1,267,291	\$ 30,002,766	\$1,168,561	26
Windsor Heights	\$ 5,556,000	\$ 490,080	\$ 6,046,080	\$105,995	57

**1995-2001 assessment are based on the 2002 rate*



**STAFF REPORT
CITY COUNCIL**
February 20, 2023

TO: CITY COUNCIL
FROM: Blake Boyle, Interim Fire Chief
SUBJECT: January Fire Department Report

GENERAL INFORMATION

SUMMARY

ATTACHMENTS

1. January Fire Department Report



Windsor Heights Fire Dept.

1133 66th Street
Windsor Heights, Iowa 50324

Office: 515-279-9450

Fax: 515-279-7760

January 2023 Report

Work Areas

- We sadly said goodbye to Chief McCluskey after his nearly 5 years with the city. Thank you Chief McCluskey for all you accomplished for Windsor Heights!
- Captain Boyle took over as Interim Chief. The City Council approved splitting the Public Safety Director's position into a separate Police and Fire Chief. The application period was opened to find our next Fire Chief.
- There were 61 active rental properties this month. 24 properties are with Safe Building waiting to pass inspection, 15 passed inspection, 22 registrations are still outstanding from this and previous months.
- Training topics for January included pediatric respiratory emergencies, new EMS protocol reviews, and review of the High Visibility Vest SOG.
- 2 preplans were updated.

Accomplishments/Activities

- The WHFFA held its annual awards banquet in conjunction with the WHPA. This year's award recipients were Firefighter of the Year- FF/PM Brett Merseal, Medic of the year- FF/PM Brian Jones and Most Improved Member- FF/EMT Mary Mitchell.
- The Two Rivers Society school group brought approximately 45 students to fire station for a tour.
- While on a non-serious medical call in Clive, crews noticed the smoke alarms in the patient's residence had a low battery. When finished with the EMS call, the battery was replaced by the crew and another alarm in the home found to be inoperable was replaced. Great job by the crew of promoting fire safety!
- FF/PM Merseal completed his Pediatric Advance Life Saving (PALS) Course taught by our FF/PM Jones who obtains CEHs for his instructor endorsement.
- POC FF/EMT Swauger obtained his Paramedic license and moved to a part-time position.
- POC FF Canelos obtained his EMT license and moved to a part-time position.

DUTY - PRIDE - TRADITION

The Windsor Heights Fire Department's mission is to deliver excellent EMS and Fire service to the public through continuous training, rapid response, public education and fire prevention.

Calls

- A553/E411 responded to a patient having heart problems. The patient's heart rate was found to be over 200 beats per minute (way too fast). Medics gave medication to try to correct the rhythm and transported to the hospital. (Evans, Price)
- E551/C501 responded to Denny's in Clive for a structure fire. Upon UFD/CFD crews arrival they found an appliance in the kitchen had caught fire and was controlled by the sprinkler system. E551 was released without assignment. (Jones, Price, Boyle)
- A553/C501 assisted PD on a death investigation which turned into a homicide case. FD assisted with securing the scene, assisting family members, and doing whatever we could to support PD and DCI Investigators back at the station. (Foreman, Swauger, Boyle)
- A553/C501 responded to a fall at the Clive Elementary Construction site. A worker fell from approximately 10 feet high off of a scaffolding and suffered a puncture wound to his leg. A trauma alert was called, and the patient transported in stable condition. (Jones, Merseal, Boyle)
- A553/L215 responded to a motor vehicle collision at 73rd/I-235. One vehicle had major damage and the patient was experiencing back pain. The patient was extricated and immobilized. They were given medication for their pain and transported to the hospital. (Evans, Price)

DUTY - PRIDE - TRADITION

The Windsor Heights Fire Department's mission is to deliver excellent EMS and Fire service to the public through continuous training, rapid response, public education and fire prevention.

