

APPLICATION AND AGREEMENT FOR USE OF HIGHWAY RIGHT-OF-WAY FOR UTILITIES ACCOMMODATION

FOR DEPARTMEN						1		2124
Permit Number 77U-2024-	-018	Highway Number US 6 Polk						
DOT Project Number Ex IM-080-3(264)12413-77						Expiration 2-8-	/Completi 25	on Date
APPLICANT (INDIV	IDUAL OR COMPANY)							
First Name	Carla	Middle Initial	Last Name	Schumacher		Phone Nu 515-323	mber 3-6227	Ext.
Company Name Des Moines Wa	ater Works					Phone Nu 515-28	mber 3-8700	Ext.
Street Address	2201 George Flagg Pa	arkway		City/Town Des N	Aoines	State IA	ZIP Cod 503	e 321
e-Mail Address	cschumacher@dmww.c	om	Secor	ndary e-Mail Addre	ess			
INSTALLATION TO Approval is hereby and further describe	BE ACCOMMODATED requested to enter within the sta	ite highway right-	of-way for the a	accommodation of a	utility installatio	n as detailec	l on the atta	achments
Relocation of 7 080-4(69)125-	13 feet of 36-inch feed -13-77 reconstruction p	er main in co roject.	onflict with t	the IDOT Polk 3	35/80 & Hicl	kman Inte	erchange	e IM-
and shall be locat Accommodation F	ed as shown on the detailed Policy for submittal of detaile	plan attached d plan requirem	hereto. (See i ents. See Sec	current lowa Dep tion 115.8 (3).) htt	artment of Tr ps://iowadot.gov/	ransportat	ion Utility lfs/UtilityPoli	cy.pdf
WORK SITE LOC	CATION	ated in Section	29	, Twp.		79		
Range	25 or	highway No	6	enerally located	0.1	(miles)	eas	st
(direction) from	135/180 intersection	with US Hig	hway 6	(city, county line,	or other land	mark).Work	proposed	l is more
specifically locate	ed as being from	127.6		/lilepost #) and	559+7	70	(Highway	Station)
to127.6	(Milepost #) and _	571+2	20(H	Highway Station) of	on theN	lorth	_ side of h	nighway.
Disclosure Statem application. Failure be provided to the p	ent: The information furnished to provide all pertinent informat public upon request.	on this form will tion will result in a	be used by the denial of the ap	Department of Tran plication. Informatio	sportation to de on furnished is p	etermine app oublic informa	roval or de ation and co	nial of the opies may
The utility compa lowa Departmen requirements as l	ny, corporation, applicant, p t of Transportation (hereaf isted on this document shall	ermit holder or ter referred to govern under t	licensee, (he as the Dep this permit aft	reinafter referred artment) that the er it is approved b	to as the Pern following sti y the Departm	nit applicar pulations a ient.	nt) agrees and those	with the special
1. The installation regulations and regulations of the 2. The Permit Ho	on shall meet the requiren directives of the Iowa Stat Department and any other I older shall be fully responsib	nents of local e Commerce (laws or regulati le for any futur	municipal, c Commission; ons applicable e adjustment	ounty, state, and the lowa Departi e. s of the facilities v	federal france ment of Natur within the esta	chise rules ral Resour ablished hig	s and reg ces, all ru ghway righ	ulations, ules and nt-of-way
caused by highwa 3. As per Section the utility owner s 4. The work des within one year fr stipulations or in request null and losses that may b 5. Non-compliand	ay construction or maintenar 115.8(8) of the Utility Accor- shall submit to the district rep cribed in this permit shall b om the date Department app constructing the work deso void. The Permit Holder al- be sustained by any person, ce with any of the terms of th	nce operations. mmodation Pol presentative an e completed a proval is receiv cribed as stipu so agrees to s or persons, on ne Department	icy, As-Built p as-built plan. s proposed ir ed for said re- lated and wil ave the State account of th s policy, pern	lans are due with quest. Failure on t thin the time fram of Iowa and the conditions and r hit, or agreement,	in 90 days after the stipulation he part of the stated shall Department I equirements of may be consi	er completions and sp Permit Hole Il render the harmless of this agreed dered caus	on of cons ecial requ der to abio is agreen if any dan ement. se for shut	struction, irements de by the nent and nages or -down of
construction oper approvals until c complying constr	rations, revocation of the pe ompliance is confirmed. The uction will be assessed agai	ermit, or withho e cost of any v nst the Permit l	lding of reloc vork deemed Holder.	ation reimbursem necessary to be	ent and/or wit performed by	hholding of the State i	f future ap in remova	plication I of non-

B. Construction and Maintenance

1. The location, construction and maintenance of the utility installation covered by this application shall be in accordance with the current Department's Utility Accommodation Policy. <u>https://iowadot.gov/rightofway/pdfs/UtilityPolicy.pdf</u>

2. Before beginning any work in the highway right-of-way, it is the responsibility of the Permit Holder to obtain an easement from the drainage district if necessary. The Department assumes no responsibility for advising the Permit Holder of each location of a drainage district crossing. It is the Permit Holder's responsibility to locate these crossings and obtain any necessary easements or permission from the drainage district. See Code of Iowa, Chapter 468 for additional information.

3. A copy of the approved permit shall be available on the job site at all times for examination by Department personnel.

4. Operations in the construction and maintenance of this utility installation shall be carried on in such a manner as to cause minimum interference to or distraction of traffic on said highway.

5. Traffic protection shall minimally be in accordance with Part VI of the current Manual on Uniform Traffic Control Devices for Streets and Highways. The applicant shall be responsible for correctly using traffic control devices including signs, warning lights, and channelizing devices as needed while work is in progress or the clear zone is impacted. Flagging operations are the responsibility of the applicant. The Department's TC XXX Series Standards are the preferred traffic control specification plans.

http://www.iowadot.gov/design/stdplne_tc.htm

6. The applicant shall seed and mulch all disturbed areas within the highway right-of-way and shall be responsible for the vegetative cover until it becomes well established. Any surfaced areas such as driveways or shoulders and sodded waterways and plantings which are disturbed shall be restored to their original condition. Any damage to any other underground facilities during installation shall be repaired at the permit holder's expense.

7. All personnel in the highway right-of-way shall wear ANSI 107 Class 2 apparel at all times when exposed to traffic or construction equipment.

8. As per Policy Section 115.4(9) parking or storage in the clear zone is prohibited. When not in actual use, vehicles, equipment and materials shall not be parked or stored within the clear zone or median.

9. Unless specifically noted in Special Requirements section, all work performed within the right-of-way shall be restricted to 30 minutes after sunrise to 30 minutes before sunset.

10. Pedestals shall be placed within 12 inches of the right-of-way line.

11. All above and below ground appurtenances (pedestals, hydrants, drains, accesses, etc.) shall be marked with high visibility posts and signs. The minimum height requirement for the signs shall be 5 foot. Urban Roadway Sections may be exempted with department approval.

C. Liability

1. To the extent allowable by law, the Permit Holder agrees to indemnify, defend, and hold the Department harmless from any action or liability arising out of the design, construction, maintenance, placement of traffic control devices, inspection, or use of the Permit Holder's facilities. This agreement to indemnify, defend, and hold harmless applies to all aspects of the Department's application review and approval process, plan and construction reviews, and funding participation.

2. The Permit Holder shall indemnify and save harmless the State of Iowa, its agencies and employees, from any and all causes of action, suits at law or in equity, for losses, damages, claims or demands, and from any and all liability and expense of whatsoever nature, arising out of or in connection with the Permit Holder's use or occupancy of the public highway.

3. The State of Iowa and the Department assume no responsibility for damages to the Permit Holder's property occasioned by any construction or maintenance operations on said highway if the facilities are not located in accordance with this permit.

4. The State of Iowa, its agencies or employees, will be liable for expense incurred by the Permit Holder in its use and occupancy of the highway right-of-way only when negligence of the State, its agencies or employees, is the sole proximate cause of such expense. Whether in contract, tort or otherwise, the liability of the State, its agencies and employees, is limited to the reasonable, direct expense to repair damaged utilities, and in no event will such liability extend to loss of profits or business, indirect, special, consequential or incidental damages.

D. Notification

1. The Permit Holder is responsible for contacting **lowa One-Call (1-800-292-8989)** and request the location of all underground utilities forty-eight (48) hours before excavation. Before beginning work in the highway right-of-way, the Permit Holder shall also contact any other known utility located in the area of the proposed work.

2. The Permit Holder agrees to give the Department forty-eight (48) hour notice of its intention to start construction or to perform routine maintenance on the highway right-of-way. Said notice shall be made to the local DOT contact person whose name is shown on Page 3.

3. 511 Notification - The Permit Holder or their contractor may not obstruct or close primary highways or primary highway extensions (state highways within city limits) without prior consent of the department, except in emergency situations. Before setting up a lane closure or vertical/horizontal restriction of any kind on a primary highway, call the local DOT Maintenance Garage AND the Traffic Management Center per attached documents. Except in emergency situations, a 10-day advance notice is required. http://www.iowadot.gov/traffic/utility/pdfs/511UtilityNotification.pdf

E. Buy America

Buy America applies to relocations of utility facilities that must move due to highway projects under certain specific conditions that include reimbursable locations and relocations due to interstate projects.

Please contact the Department's District Engineering Operation Technician (EOT) for more information on Buy America requirements or visit the following link: <u>https://iowadot.gov/rightofway/Utility-Accommodation-and-Coordination#533652456-buy-america</u>

FOR DEPARTMENT USE ONLY

Special Requirements - in addition to the stipulations above, the following special requirements shall apply to this permit:

Traffic control is restricted to the hours of 7pm to 5am Sunday night through Friday morning.

North lane of Hickman Road Between interstate 80/35 entrance ramp and 111th St may be temporarily closed as required between 7pm to 5am Sunday night through Friday morning.TC-419 shall be required for Lane Closure.

Applicant Signature and Agreement

The undersigned have read the stipulations of this permit agreement as stated, as well as attachments which may be included, and by signing this application agree to abide by all stipulations and to complete the work as proposed in compliance with the stipulations and attachments within one year from the date Department approval is granted for said request. Failure on the part of the applicant to abide by the stipulations or to construct the work desired as stipulated and within the time frame stated shall render this agreement and request null and void. The undersigned also agrees to save harmless the State of Iowa and the Iowa Department of Transportation from any damage or losses that may be sustained by any person or persons on account of the conditions and requirements of this agreement.

Name of Agent (Print or Type)	Agent/Owner (Signature)	10.04	Title	Manager	
Laria Schumacher	Carla Mum	acret	Date	Manager	
Des Moines Water Works	01/06/2	024			
e-Mail Address					
cschumacher@dmww.com					
CITY ACTION (IE PROPOSED WORK IS WITHI		ITY CITY ACTION IS	REQUIRE	2)	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
"The undersigned city joins in the grants embodie that all of the covenants and undertakings there undersigned city and recommends action on said	ed in the above permit exer in running to the lowa De permit application as noted	cuted by the lowa Dep partment of Transpor I below by the delegate	artment of T tation shall ed city officia	Fransportati inure to the II".	ion on condition e benefit of the
X Recommend Approval Dol	Not Recommend Approval			None Requ	lired
Signature	Title City Enginee	er	Date	2/6/24	1
Type or Print Name John B. Larson		Authorized Official for	the City of	Urban	dale
e-Mail Address jlarson@urbandale.c	org				
COUNTY ACTION (IF PROPOSED WORK CRO	SSES COUNTY RIGHT-C	F-WAY, COUNTY AC	TION IS RE	EQUIRED)	
"The undersigned county joins in the grants em condition that all of the covenants and undertakin the undersigned county and recommends action of Recommend Approval Do I	nbodied in the above peri gs therein running to the lo on said permit application a Not Recommend Approval	nit executed by the lowa Department of Tra s noted below by the d	owa Departi Insportation Ielegated co X	ment of Tra shall inure unty official None Requ	ansportation on to the benefit of I". Jired
Signature	Title		Date		
Type or Print Name		Authorized Official for	the County	of	
e-Mail Address					
FEDERAL HIGHWAY ADMINISTRATION ACT	ON (WHEN REQUIRED)	Sulling College (1997)	6 Y 1		
Recommend Approval Do	Not Recommend Approval		X	None Requ	Jired
Authorized FHWA Representative Signature				Date	
DEPARTMENT OF TRANSPORTATION FINAL	ACTION		28.6	1000	
X Application Approved App	olication Denied	Perm	it Number:	77U-202	 24-018
Authorized Highway District Representati∨e Jeff Cunningham	Signature Jeffre	ey Cunningham	/	Date 2-8-2	4
e-Mail Address jeffrey.cunningham@iowadot.us					
Notice of intention to commence activities on the actually commencing the activities as herein grants Transportation representative. Except in emergencie	highway rights-of-way shall ed by this approved applica as a 10 day advance notice is	be submitted by the a ttion. Notice is to be gi s required for lane restric	pplicant a m ven to the fo ctions of any	inimum of a bliowing low kind:	48 hours prior to a Department of
Local DOT Contact Person (Type or Print Name Brandon Lafrenz)			Phone N 515-9	Vumber 986-5465
Street Address 2310 SE 17th St		City/Town Grimes		State Z IA	1P Code 50111
e-Mail Address			Permit Nur	nber:	

brandon.lafrenz@iowadot.us

Permit Number. 77U-2024-018



M

[X]

|X|

Х

Х

X

х

Х

х

х

www.iowadot.gov

Site Plan & Attachments Checklist for Utilities Accommodation Permit

Bid Plans and Technical Specifications were sent to Last updated 10-30-2023 Sean Passick by email on 12/12/2023

Plans showing highway centerline, route number, stationing and milepost.

Visible orientation (north arrow) and identifying landmarks.

Clearly identify right-of-way (ROW) lines and include with horizontal distance from highway centerline shown, including all breakpoints and changes in the ROW distances.

Provide Iowa One Call design request information (minimally the list of utility owners), both inorth PMWW DMWW hived Snyder, to design our project. Spyden is also the iDoT designer. Monthly List all the existing utilities in the installation area. Describe now your installation will address existing utilities that are in conflict, and show all observable existing features, such as power poles, pedestals, markers, handholes, trees, etc.

Show all construction features/bore pits with the running line and horizontal distance from roadway edge or centerline (showing clear zone compliance). https://iowadot.gov/rightofway/pdfs/UtilityPolicy.pdf

Show the start/stop stationing and depths or elevations for all bores, longitudinal and transverse.

Show the start/stop stationing and depths or elevations for all plowing locations. N/A

Show casing start/stop locations, lengths, diameter, and material if casings are used.

Show all facilities that are to be installed on the site plan including but not limited to pedestals, wire conduit, poles, guy anchors, junction boxes, handholes and manholes. ALL MUST BE REFERENCED BY highway stationing and distance from centerline.

Show where installation starts and stops, leave the ROW, stops at existing pedestal, pole, etc. Use highway stationing and distance from centerline of the start and stops.

Identify any physical focal points, posts, pedestals, shutoffs, overflow valves, hydrants, etc.

Describe any other work to accomplish installation before, during or after installation, including but not limited to removal of brush/trees, removal of underbuild, construction of access, fence removal, fence replacement, etc.

Identify unusual issues to be pointed out on the site plan. CLARITY IS THE KEY. It will not be assumed to be included in the permit or that the permit holder will perform certain work if it is not included in the plan.

Attachments

Proper Traffic Control Standards (lowa DOT TCxxx Series Standard plans preferred) Available at: <u>http://iowadot.gov/design/stdplne_tc.htm</u>

Required Height / Depth Typical (supplied by the department)

Tile Repair Guide (rural locations) (supplied by the department)

Special Seeding Requirements and Erosion Control (supplied by the department)

511 Lane Restriction Requirements (if any lane restriction is anticipated) (supplied by the department)

ALL ITEMS MUST BE LEGIBLE FOR REVIEW BY THE DEPARTMENT

Special Requirements:

All material or equipment shall be kept 10 feet off Right of Way during non-working hours.

No hole shall remain open within the Right of Way during non-working hours.

Right of Way shall be restored Immediately upon completion of project.

No parking on Shoulders.

No digging into side slopes of any road or highway shall be allowed.

Proper traffic control must be used at all times.

511 must be contacted 48 hours before any shoulder or lane closure.

Supervisor must be contacted 48 hours before work begins. See page 3 of the permit.

			FORESLOPES			BACKSLOPES	
design speed	design ADT	6:1 or flatter	Steeper than 6:1, up to and including 4:1	Steeper than 4:1	Steeper than 4:1*	4:1 or flatter, up to 6:1	6:1 or flatter
	ADT < 750	7	7	**	7	7	7
40 mph or loss	$750 \leq ADT < 1500$	10	12	**	10	10	10
40 mph of less	$1500 \leq ADT < 6000$	12	14	**	12	12	12
	$ADT \ge 6000$	14	16	**	14	14	14
	ADT < 750	10	12	**	8	8	10
45 50 mmh	$750 \le ADT < 1500$	14	16	**	10	12	14
45 – 50 mph	$1500 \le ADT < 6000$	16	20	**	12	14	16
	$ADT \ge 6000$	20	24	**	14	18	20
	ADT < 750	12	14	**	8	10	10
55 mph	$750 \le ADT < 1500$	16	20	**	10	14	16
	$1500 \le ADT < 6000$	20	24	**	14	16	20
	$ADT \ge 6000$	22	26	**	16	20	22
	ADT < 750	16	20	**	10	12	14
60 mmh	$750 \le ADT < 1500$	20	26	**	12	16	20
oo mpn	$1500 \le ADT \le 6000$	26	30	**	14	18	24
	$ADT \ge 6000$	30	30	**	20	24	26
	ADT < 750	18	20	**	10	14	14
65 – 70 mph	$750 \le ADT < 1500$	24	28	**	12	18	20
	$1500 \le ADT < 6000$	28	30	**	16	22	26
	$ADT \ge 6000$	30	30	**	22	26	28

Acceptable Clear-zone Distances (feet).

* Backslopes as steep as 2.5:1 can be considered as part of the clear zone, as long as they are relatively smooth and do not contain any fixed objects. Refer to Section 8A-4 of the Design Manual for information regarding backslopes steeper than 2.5:1.

** Since a vehicle traveling on a slope steeper than 4:1 is likely to be diverted to the bottom of the slope, the width of any slope steeper than 4:1 cannot be counted in the clear zone determination. Refer to Section 8A-2 of the Design Manual for information on providing clear recovery areas at the base of steep slopes.



511 Request Form

Email NEW 511 entries to <u>lowaDOT.Traffic@iowadot.us</u>. Updates and/or changes to the current 511 entries may be emailed or by calling 515-237-3300.

If you need a press release for this project please contact Keven Arrowsmith in the Office of Strategic Communications, by email (Keven.Arrowsmith@iowadot.us).

General Information

Requester:		E-mail address:	
Does this project include <u>Intelligent</u> Responsible RCE Office: Cedar Rapids Chariton Cherokee Council Bluffs Creston Route and direction (N, S, E, W or Bo DOT Project Number (if applicable)	Work Zones?	Yes 🔲 No	 Marshalltown Mason City New Hampton Sioux City Other
DOT Permit Number, if issued (for c	ontractors)		
Project description (PCC/HMA result	rfacing or overlay, bridge	replacement, ne	w bridge, etc.
Project begin location (detailed dese	cription) (Do NOT use lan	dmarks)	
Project end location (detailed descr	iption) (Do NOT use land	marks)	
County/Counties			
24 hour project contact (for after-h	ours traffic control issues)	
Name	Phone		(If none, please enter none)
Describe the impact on traffic			
 Closed Closed intermittently Intermittent lane closure Opposing traffic Right lane closed Right 2 lanes closed Right 3 lanes closed Left lane closed Left 2 lanes closed 	 Left 3 lanes closed Center lane closed Center 2 lanes closed Center 3 lanes closed Right shoulder closed Left shoulder closed Both shoulders closed Exit ramp closed Entrance ramp closed 		Ramp partially closed Exit ramp partially closed Entrance ramp partially closed Ramp closed (systems interchange) Local road closures in area Single lane traffic alternating directions Slow moving maintenance vehicle

Additional project information (pilot car, flagger, etc.)

Page	2	of	3	

Will there be temporary overhead signals? (15' standard height restriction)
If yes, please provide the location of the temporary overhead signals.
Project begin date and time: Project end date and time:
Times of Closure Continuous Weekdays (Monday – Friday) Nights
Times of closure (Actual times required)
Restrictions (Need help deciding appropriate restrictions? Call Motor Carrier Services at 515-237-3264)
Are there restrictions? Yes No (If no, please skip ahead to the " Detour information " section.
Are there width restrictions?
Is the width restriction the entire length of the project?
If yes, what is the width restriction?
If no, do you have the Restriction Tabulation sheet?
If yes, please attach the Restriction Tabulation Sheet.
If no, how many width restricted areas and bridges are within the project?
If you do NOT have the Restriction Tabulation Sheet, please complete the relevant information for each restricted area
or bridge.
1. Area or bridge # Iravel direction N S E W Measured width minus (at least) 1 ft 2. Area or bridge # Travel direction N S F W Measured width minus (at least) 1 ft
3. Area or bridge # Travel direction $\square N \square S \square E \square W$ Measured width minus (at least) 1 ft.
4. Area or bridge # Travel direction $\square N \square S \square E \square W$ Measured width minus (at least) 1 ft.
5. Area or bridge # Travel direction $\square N \square S \square E \square W$ Measured width minus (at least) 1 ft.
6. Area or bridge # Travel direction $\square N \square S \square E \square W$ Measured width minus (at least) 1 ft.
7. Area or bridge # Travel direction $\square N \square S \square E \square W$ Measured width minus (at least) 1 ft
8. Area or bridge # Travel direction $\square N \square S \square E \square W$ Measured width minus (at least) 1 ft
9. Area or bridge # Travel direction N S E W Measured width minus (at least) 1 ft
10. Area or bridge # Iravel direction N S E W Measured width minus (at least) 1 ft
Are there height restrictions?
If yes, do you have the Restriction Tabulation sheet?
If yes, please attach the Restriction Tabulation Sheet.
If you do NOT have the Postriction Tabulation Shoet, places complete the relevant information for each overhead bridge
1. Bridge # or location $Travel direction \square N \square S \square E \square W Estimated Vertical Clearance$
2. Bridge # or location Travel direction N S E W Estimated Vertical Clearance
3. Bridge # or location Travel direction N S E W Estimated Vertical Clearance
4. Bridge # or location Travel direction N S E W Estimated Vertical Clearance
5. Bridge # or location Travel direction N S E W Estimated Vertical Clearance
6. Bridge # or location Travel direction D N D S D E W Estimated Vertical Clearance
7. Bridge # or location Travel direction N S E W Estimated Vertical Clearance
8. Bridge # or location Iravel direction N IS E W Estimated Vertical Clearance 9. Bridge # or location Travel direction N IS E IW Estimated Vertical Clearance
10 Bridge # or location Travel direction $\Box N$ $\Box S$ $\Box E$ $\Box W$ Estimated Vertical Clearance

Page 3 of 3

Are there weight restrictions? Yes No Unknown If yes, what is the weight restriction?
Are there length restrictions? Yes No Unknown
Are these restrictions 24 hours per day? Yes No (If no, please enter the daily start / end times below.) Enter the daily restriction START time And daily restriction END time
Additional information pertaining to restrictions (shoulder type and width, TBR, channelizing devices, etc.)
Detour Information Is there a marked detour?
If yes, are oversized loads allowed on the detour? Yes No If yes, are there restrictions on the detour? (height, width, length, weight)
If no, what restriction prevents oversize / overweight loads? (height, width, weight, length)
Do you have a map of the detour? Yes No If yes, please attach the map of the detour If no, please describe the detour in detail in the space provided below.
District Traffic Tech (contact for all detour restriction info) Name Phone
Maintenance Garage responsible for detour:
Dynamic Message Signs (DMS)
Request use of permanent DMS is area:
Will there be portable DMS tied to this project?

Minimum Policy Requirements Urban Section Non - Freeway Highway



Notes:

Utilities shall be located between back of curb and the highway row. Utilities should be located as near to the highway row line as practical. See Utility Policy, Section 115.13 for further details.

Erosion Control Detail

Table 2601.03.1 Rural Stabilizing Crop Seeding Rates and Schedule

March 1 through October 31

60 lbs. per acre (56 kg/ha)		
60 lbs. per acre (56 kg/ha)		
7 lbs. PLS per acre (8 kg/ha)		
February 28 (29)		
62 lbs. per acre (69 kg/ha)		
62 lbs. per acre (69 kg/ha)		
7 lbs. PLS per acre (8 kg/ha)		
(Elymus Canadensis) seed will not be d Class (Yellow Tag) Source G0-Iowa.		
shall be debearded or equal to facilitate of seed.		
izing Crop Seeding Rates		
122 lbs. per acre (187 kg/ha)		
35 lbs. per acre (39 kg/ha)		
18 lbs. per acre (20 kg/ha)		
Seed Rates, Rural Areas		
100 lbs. per acre (112 kg/ha)		
75 lbs. per acre (84 kg/ha)		
20 lbs. per acre (22 kg/ha)		
tes, Urban Area		
122 lbs. per acre (187 kg/ha)		
35 lbs. per acre (39 kg/ha)		

•

Tile Line Repair Guideline





Note:

Replacement of drainage tile shall be accomplished so as to cause the minimum of disturbance to existing field tile. The repaired drainage tile shall be left in a functional condition with special emphasis placed on maintaining existing flow line elevations. (A) = A minimum of 24" shall be excavated outside the normal utility trench wall or such greater width as may be required to expose a minimum of 12" of undamaged drain tile.

REPL	REPLACEMENT SCHEDULE - CASE 'A'									
Existing Tile 🛈	4	6	8	10	12	15	18	21	24	>24
Proposed Subdrain Size										
Concrete Pipe		-	12	15	15	18	21	24	30	D+6"
Coated C.M.P.	10	12	15	18	21	24	30	36	36	*

* Replacement sizes provide equivalent capacity based on 6" settlement assumming a 0.20% slope with n = 0.013 for concrete pipe and n = 0.025 for corrugated pipe (Manning Formula)

NOTES:

Tile lines disturbed within the right-of-way (outside the Roadway Embankment Area *) limits shall be repaired as follows:

May be repaired with schedule 40 PVC pipe of compatible size or in accordance with the replacement schedule-case 'A' as listed above. Replacement with schedule 40 PVC pipe shall require using a connecting device of a Femco plain and plain flexible pipe coupling or equal.

Tile lines disturbed within the "Roadway Embankment Area" shall be replaced in accordance with the replacement schedule - case 'A' stated above and as follows:

①Concrete collar to be placed around joint where existing tile line and corrugated aluminized metal pipe connect.

- (2) Minimum length of corrugated metal pipe shall be 4 feet. Minimum length of 2 feet on each side of the tile line break location.
- (3)Trench shall be backfilled with 8 inches loose material, compacted to 6 inches with a minimum of 95% compaction of natural density.
 - A. Backfill and compact area around drain tile to be completed by hand until new tile is completely covered. Remainder of the trench shall be backfilled by acceptable methods.
 - B. Area shall require inspection by the Iowa Department of Transportation inspectors or their designated personnel prior to backfilling of trench.
- * "Roadway Embankment Area" is defined as the area lying between the foreslopes of a two-lane roadway and from near foreslope to far foreslope of a four lane roadway.





CONSTRUCTION PLANS FOR **IDOT POLK 35-80 HICKMAN INTERCHANGE** FEEDER MAIN RELOCATION

URBANDALE, POLK COUNTY, IOWA





POLK COUNTY, IOWA

TITLE SHEET OVERALL PROJECT MAP

DMWW GENERAL NOTES

GENERAL NOTES

LEGEND

DETAILS

SURVEY CONTROL

PLAN AND PROFILE

TRAFFIC CONTROL AND STAGING

TRAFFIC CONTROL NOTES

CATHODIC PROTECTION

ROFESSIONAL COMP	I hereby certify that this enginee was prepared by me or under m supervision and that I am a duly Professional Engineer under the State of Iowa.	ring document y direct personal licensed laws of the
	Willy Falland	10/19/2023
	Wesley C. [/] Farrand	Date
	License Number P18175	
P18175	My License Renewal Date is De	cember 31, 2024
× IONNA × all	Pages or sheets covered by this	seal:
Allanna signed	ALL SHEETS	

SN & AS Project F She	DMWW HICKMAN ROAD FEEDER MAIN RELOCATION				
Y ssc ille N eet		MARK	REVISION		ATE BY
1 1 1		Engineer: WC	Checked By: CHKD	Scale: 1" =	
3.02		Technician:LM	Date: 10-19-2023	T-R-S:	
ER TES 113.01	SNYDER & ASSOCIATES, INC. 1 2727 841 SWDERNEN AND SIGNATES AND SIGNATE SIGNATE SIGNATION SIGNATI	.com S&A Project	iject No. 548-872-9010 t No. 123.0213	Sheet 1	



BASE MAP SURVEY INFORMATION

POLK COUNTY IM-080-4(69)125-13-77 I-35/80 & US HWY 6/HICKMAN ROAD INTERCHANGE PIN 13770804069 SAP#04129

Party Personne

Eric Miller- Survey Manager/PLS Jeff Pavelka- Survey Party Chief Brian Leonard- Survey Party Chief Adam Catrenich- Survey Party Chief Jacob Hennick- Field Technician Sam Blaisdell- Survey Office Technician

Date(s) of Survey 01/25/2021 Begin Date 4/30/2021 End Date

General Information

Measurement units for this survey are US survey feet. This survey is Preliminary Engineering Survey for the proposed Hickman Interchange project. This project is a Partial DTM survey. Traditional survey was performed within the project limits, with the exception of interstate pavement. For efficiency and safety, UAS was utilized to collect photo generated point cloud data on the interstate. The point cloud data was used to generate 3D line in the SUR file.

Vertical Control

Vertical datum for this survey is relative to NAVD88 Geoid 12b. Vertical datum originated from Hickman Road and 128th intersection, NHSX-006-4(189)-77, SAP 07011. Vertical positions originated from City of Urbandale published city benchmark report. BM #55 was used as the primary vertical control and is an IHC brass marker located at NE corner of northbound I-35 bridge over U.S. Highway 6. This survey observed three City of Urbandale Benchmark Monuments with published NAVD88 elevations:

City of Urbandale Benchmark #55 has a published Elev. of 929.83 Survey Elev. = 929.83

City of Urbandale Benchmark #45 has a published Elev. of 908.05 IR-35-2(204)73-12-77 published Elev. of 907.82 Survey Elev. = 908.05

BM #38B Project STP-6-49119)-2C-77 published Elev. of 889.17 (271.021m) Survey Elev. = 889.46

City of Urbandale Benchmark #57 has a published Elev. of 899.61 Survey Elev. = 899.61

IDOT performed a 2018 survey of the SB University exit ramp. Project IMN-080-3(235)124-OE-77, SAP 0412.8. A difference of 0.07' was found. Vertical difference between this current survey and the SB University exit ramp project are shown below

Horizontal Control

The project coordinate system is the Iowa Regional Coordinate System, Zone 8. Horizontal datum is NAD83 (2011) for Epoch 2010.00. The projection parameters for Zone 8 of the IaRCS is defined below:

Traverse Mercator Projection North American Datum of 1983 Origin Lat: 40°15'00"N Origin Central Meridian: 093°43'00"W Central Meridian Scale: 1.000033 False Northing: 7,000,000 False Easting: 18,500,000

Coordinates were determined by averaging a minimum of three IaRTN observations with appropriate time spans between. The horizontal standard deviation of these observations was less than 0.05' at 95% confidence level.

Alignment Information

The horizontal alignments for I-35 was a retrace of as-built pacing plans for project IR-35-2(204)73-12-77. Stationing was held at POT Station 419+51.50 and ran ahead and back without equation.

P.C. 363+05.61 (plan) = P.C. 363+00.68 (this survey)

P.T. 370+45.61 (plan) = P.C. 370+40.61 (this survey)

Plan Equation

P.O.T. 388+16.72 (plan back) = P.O.T. 388+17.60 (plan ahead) = P.C. 388+21.85 (this survey)

P.O.T. 419+51.50 (plan) = P.O.T 419+51.50 (this survey)

P.C. 437+32.9 (plan) = P.C. 437+32.9 (this survey)

P.T. 443+32.9 (plan) = P.T. 443+32.89 (this survey)

Alignment Information (Continued) P.T. 475+65.5 (plan) = P.T. 475+64.91 (this survey)

P.C. 522+83.36 (plan) = P.C. 522+84.09 (this survey)

The horizontal alignments for U.S. Highway 6 and 128th Street was provided by Iowa DOT District 1 Office. Description of alignment as received described below

The horizontal alignment for U.S. 6 (Hickman Road) is a retrace of as-built paving plan for project STP-6-4(119)--2C-77. Plan stationing is in metric and was converted to U.S. survey foot for this survey. Stationing was held at P.I. 186+92.513m (converted to station 613+27.02 in U.S. survey foot) and ran ahead without equation.

P.I. 186+92.513m (613+27.02 U.S. survey foot) = P.I. 186+92.513m (613+27.02 U.S. survey foot) (this survey) Found "P-K" nail in conc. crossover

P.C. 198+53.721m (651+36.75 U.S. survey foot) = P.C. 198+53.757 (651+36.87 U.S. survey foot) (this survey) Found 5/8" re-rod (flush)

Utilizing the provided alignment and the same as-built paving plans for project STP-6-4(119)--2C-77, Snyder & Associates extended alignment east from 651+36.75 to 673+00.

Utility Information

Sub-Surface Utility Mapping Quality Level is in accordance with CI/ASCE 38-02 Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.

Remark abbreviations QLA Quality Level A Highest guideline quality level QLD Quality Level D Lowest guideline quality level

Two One-call utility locate request (Ticket# 552100568 and 552100570) were made Feb. 1, 2021. The following Companies were listed:

- E1 - EL1D MIdAmerican Energy Electric Quality D
- E2 - EL2D City of Urbandale Traffic Electric Quality D - E3 - - - EL3D City of Clive Traffic Electric - Quality D
- E4 - EL4D IDOT Iowa Department of Transportation Electric Quality D
- E5 – – EL5D GPRS/No Name Electric Quality D F0 – FO1D Zayo Fiber Optic Quality D
- F02 - - FO2D CenturyLink Fiber Ontic Quality F
- F03 - FO3D MCI/Verizon Fiber Optic Quality D
- F04 - FO4D Iowa Communications Network Fiber Optic Quality D
- F05 - F05D Windstream Fiber Optic Quality D F06 - F06D UPN Unite Private Network Fiber Optic Quality D
- F07 - F07D Clive Traffic Elber Optic Quality D
- F08 - F08D Consolidated Fiber Optic Quality D - F09 - - - - FO9D Verizon Fiber Optic - Quality D
- F010 F010 F010D Aureon Fiber Optic Quality D F011 - F011D Mediacom Fiber Optic Quality D
- F012 - FO12D Next Level Fiber Optic Quality D F013 - FO13D Metronet Fiber Optic Quality D
- 6 - GL1D MidAmerican Energy Gas Line Quality E
- 62 - GL2D Unknown Gas Line Quality D
- GHP - - GH1D MidAmerican Energy Gas Line Quality E
- PR MidAmerican Energy Riser Pole PPA Power Pole MidAmerican Energy
- SAN. - SA1D City of Clive Sanitary Sewer Quality D
- -sav. 2 - SA2D Des Molnes Metro Waste Water Sanitary Sewer Quality D
- st s - ST1D Storm Sewer Co. 1 Quality D T1 - TL1D CenturyLink Telephone Line Quality D
- T2 - TL2D Comm Data Link Telephone Line Quality D
- TV - TV1D Mediacom TV Cable Quality D - TV2 - - - TV2D Proposed Route TDI Cable TV Cable - Quality D

- w3 - WL3D Des Moines Water Works Water Line Quality D

Following are the list of contacts made in the order they were received:

4.01.21 Converted a small area into 2 locate tickets 552101832 and 552101833; University heading north along the south bound off ramp of I-80 to University, along buildings.

4.27.21 JDP converted I-35/Hickman Intersection into three locate tickets 552102448, 552102449 and 552102450. Areas of tickets extend to limits of on/off ramps of interchange

4.28.21 EJM Received call from DMWW (Chan 515-208-1878). He noted large 36"PCCP feeder on north side of Hickman crossing interstate. Noted outside diameter of pipe around 42". Could also be encased under the interstate. He has located west side and will located east side today or tomorrow

Control Points

Control Pt. No.NorthingEastingElevationDescriptionCP10007502552.3718483969.64999.20FENO-SET MONUMENT+/-25' SOUTH OF DOUGLAS AVE, +/-25' OFF RAMPCP10017497688.9718486259.21876.70FENO-SET MONUMENTNORTH SIDE NW 11TH ST, 8' NORTH OF BACK OF CURB, 40' SW OF LIGHT POLECP10027500968.7218485389.65935.99FENO-SET MONUMENTEAST SIDE OF 11TH ST, +/- 7' EAST OF 1ST HYDRANT SOUTH OF JOHNSTON SUPPLYFENO17497689.1918483375.02915.02FENO-FOUND MONUMENTWEST SIDE OF 1-35 AND EAST OF SB ON RAMP OF HICKMAN ROAD60327491564.871848357.386937.63FENO-FOUND MONUMENT+/- 5' EAST OF EAST OF LAST HABLASTOR SD SOUTH OF UNIVERSITY AVE.BM557497393.8518481482.57929.83BM-URBANDALEFOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD

UTILITY CONTACT INFORMATION

UTILITY CONTACT FOR MAPPING INFORMATION SHOWN AS RECEIVED FROM THE IOWA ONE CALL DESIGN REQUEST SYSTEM, TICKET NUMBER 552100568

(M52G) MIDAMER-GAS Contact Name : Craig Ranfeld Contact Phone: 5152526632 Contact Email: MECDSMDesignLocates@midamerican.com

(ADB) ADB COMPANIES Contact Name : ANGIE BACH Contact Phone: 6365849702 Contact Email: abach@adb-us.com

(CLV) CLIVE CITY OF Contact Name : Jared Acheson Contact Phone: 5152236231 Contact Email: rowpermits@cityofclive.com

(CTLIA01) CENTURYLINK Contact Name : Tom Sturmer Contact Phone: 3034539927 Contact Email: Thomas.sturmer@centurylink.com

(DWR) DES MOINES METRO WASTEWATER Contact Name : Melissa Schlickbernd Contact Phone: 5153238038 Contact Email: mschlickbernd@dmww.org

(DWW) DES MOINES WATER WORKS Contact Name : Ed Clark Contact Phone: 5152838784 Contact Email: eclark@dmww.com

(ENV) CONSOLIDATED COMMUNICATIONS Contact Name : Justin Grev Contact Phone: 5073863606 Contact Email: Justin.grev@consolidated.com

(ICN) IOWA COMMUNICATIONS NETWORK Contact Name : Shannon Marlow Contact Phone: 8005723940 Contact Email: icnoutsideplantiowaonecall@iowa.gov

(IDT) IOWA DOT Contact Name : Jason Dale Contact Phone: 5152391995 Contact Email: DOT-IOC-Traffic@iowadot.us

(INS) AUREON NETWORK SERVICES Contact Name : Jeff Klocko Contact Phone: 5158300445 Contact Email: jeff.klocko@aureon.com

(M52E) MIDAMER-ELEC Contact Name : Craig Ranfeld Contact Phone: 5152526632 Contact Email: MECDSMDesignLocates@midamerican.com

(MC1) VERIZON Contact Name : John Bachelder Contact Phone: 9727297000 Contact Email: john.bachelder@verizon.com

(T15) MEDIACOM COMMUNICATIONS CORP Contact Name : Paul May Contact Phone: 5152462252 Contact Email: pmay@mediacomcc.com

(UPN) UNITE PRIVATE NETWORKS, LLC Contact Name : Joe Kilzer Contact Phone: 8164253556 Contact Email: upngis@upnfiber.com

(URB) CITY OF URBANDALE Contact Name : Tyler Casey Contact Phone: 5152783950 Contact Email: tcasey@urbandale.org

(UWD) URBANDALE WATER UTILITY Contact Name : Dale Acheson Contact Phone: 5152783940 Contact Email: dacheson@urbandalewater.org

(W16) JOWA DOT Contact Name Scott Smyth Contact Phone: 5152505290 Contact Email: scott.smyth@iowadot.us

(WDM) WEST DES MOINES WATER WORKS Contact Name : William Mabuce Contact Phone: 5152223510 Contact Email: design locates@wdmww.com

(WDT) WEST DES MOINES TRAFFIC Contact Name : Jim Dickinson Contact Phone: 5152223482 Contact Email: Jim.Dickinson@wdm.iowa.gov

(WINIA) WINDSTREAM COMMUNICATIONS Contact Name : LOCATE DESK Contact Phone: 800289190 Contact Email: LOCATE.DESK@WINDSTREAM.COM

(ZAY) ZAYO GROUP LLC Contact Name : George Huss Contact Phone: 4434032023 Contact Email: venus.minucciani@zayo.com

SURVEY SYME

INFORMATION

UTILITIES.

IS
-0

BULS		
ve Ground Storage Tank	•=	PR, Electic Riser Pole
ard	Q	PRO, Profile Shot
om of Bridge Beam	0	PT, Curve Point
pe Centenine Dock		REF, Reference Tie Point
Bin		RIP Rin-Ran
Breakine	#004	ROC, Rock Outcropping
ing or Foundation		ROW, Right of Way Mark
ge Low Steel	************************	RR, Centerine of Rairoad Tracks
n Mark		RRB, Railroad Signal Box
an bank	<u> </u>	RRF, Rairoad Frog
ne BL of Road - ML or SR		RRS Rairoad Signal
9	*	RRW, Railroad Switch
Phone Tower	D RT	RT, Radio Tower
m		S, Soll Sampling Site -Wetlands
crete or A/C Slab	ŏ	SBR, Size of Bridge
poration Line	Å	SCR Section Corner
Point	6	SEP. Septic Tank
of Curb		SF, Sit Fence -Wetlands
rent	8	SG, Staff Gauge -Wetlands
ne Draw or Stream -Down	_	SH, Paved Shoulder
nage Area Boundary	69	SHR, Shrub
enine of Dike of Dam togrammetry Ely Control Check	O SION	SI, Sign SI, Speed Limit Sign
rine Draw or Stream Up	_ · _ · _ ·	SLN Section Line
cal Box	6	SLO. Slo
of Gravel Road	ē	SNK, Sink Hole
e Paved Entrance and Park Lot		SNP, Unpaved Shoulder
terline BL of Entrance		SP, Stream Profile
e Unpaved Entrance and Parking	A	STP, Stump
of Water		SWR, Suewark SWR, Swamp or March
in Link and Security Fence	© TA	TA. Tower Anchor
NO Monument	II 18	TBO, Telephone Booth
Hydrants	C TC8	TCB, Traffic Signal Box
Poles	0	TDC, Tree Deciduous
Pipe		TDL, Traffic Detection Loop
rence	*	TEV Evergeen Tree
ard Rail Cable	ô	TFR. Tree Fruit
rd Rall Steel	- 0 -	TGP, Telegraph Pole
d Post -Less Than 4 Posts	- TILE	TIL, Tile Line
rd Post -4 or More Posts		TLNL, Tree Line Left
nd Shot		TOR, Tree Line Right
r In Front of Curb	-	TPA Telephone Pole Co. 1
/alve	÷	TPB. Telephone Pole Co. 2
ige Row	÷	TPC, Telephone Pole Co. 3
c Soll -Wetlands	÷	TR, Telephone Riser Pole
cal High ne Tower		TRL, Tra
Sewer Intake	0	TSP, Telephone Switch Pay
an Sewer Deenive Intake	*	TSG Traffic Signal
aneous Line	*	TSL. Traffic Signal and Luminare
ank	q	TV, Satellite TV Dish
naire	O TVP	TVP, TV Pedesta
Access Manhole	由	TW, Top of Water
ellaneous Marker Best		UB, Utility Box
Outlet	~	UPH Lithity Pot Hole - Ouality A
Point	è	UST. Underground Tank
to Control Point	a ve	UV, Underground Utaty Vault
to Control Target	u	VS, Channel Cross Section
nt Point	0	WC, Wild Card Misc. Field Shot
Culvert	¤	WEL, Well
on or Photo -wetlands	• ¥H	WHU, water Hydrant
ve Point	6	WM Wind Mill
Iral Point	201	WND. Wind Turbine
	0 WV	WV, Water Valve



UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

UTILITY QUALITY SERVICE LEVELS

QUALITY LEVELS OF UTILITIES ARE SHOWN IN THE PARENTHESES WITH THE UTILITY TYPE AND WHEN APPLICABLE, SIZE. THE QUALITY LEVELS ARE BASED ON THE CI / ASCE 38-02 STANDARD

QUALITY LEVEL (D) INFORMATION IS DERIVED FROM EXISTING UTILITY RECORDS OR ORAL RECOLLECTIONS.

QUALITY LEVEL (C) INFORMATION IS OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION WITH QUALITY D

QUALITY LEVEL (B) INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE

QUALITY LEVEL (A) IS HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES OBTAINED BY ACTUAL EXPOSURE OR VERIFICATION OF PREVIOUSLY EXPOSED SUBSURFACE UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

File No: Sheet	S N & A S	DMWW HICKMAN ROAD FEEDER MAIN RELOCATION	00	DT IM-080-3(26	4)124-13-77		
3	Y		A L A MAF	XK	REVISION	ā	ATE BY
13 3				ineer: WCF 0	hecked By: WCF	Scale: NO	SCALE
1			Tect	hnician: JDS D	late: 10/17/2023	Field Bk:	Pg:
	E R res	SNYDER & ASSOCIATES, INC. 1 2727 SW SWDER BUD ANKENY: IOWA 50023 515-964-2020 I WWW.SNYDER-ASSOCIATES	S.COM	MWW Project N A Project No. 1	o: 548-872-9010	Sheet	3

DES MOINES WATER WORKS (DMWW) GENERAL NOTES:

1. SHOP DRAWING SUBMITTAL REVIEW

a. ENGINEER WILL REVIEW SHOP DRAWING SUBMITTALS FOR ALL MATERIAL RELATED TO WATER MAIN WORK AS SOON AS PRACTICAL AFTER NOTICE TO PROCEED AND PRIOR TO PURCHASE OF MATERIALS. ENGINEER REQUIRES A MINIMUM OF TWO (2) WEEKS FOR REVIEW CONTRACTOR TO SUBMIT SHOP DRAWINGS ELECTRONICALLY TO: CARLA SCHUMACHER

CSCHUMACHER@DMWW.COM (515) 323-6227

2. INSPECTION

- a. A DMWW ENGINEERING TECHNICIAN WILL BE APPOINTED AS AN INSPECTOR FOR THIS PROJECT TO INSPECT MATERIAL AND WORK FOR CONFORMANCE TO PLANS AND SPECIAL PROVISIONS.
- b. ASSIST ENGINEERING TECHNICIAN WITH DAILY RECORD KEEPING INCLUDING ALL NECESSARY FIELD LOCATIONS AND MEASUREMENTS. CONTRACTOR REQUIRED TO ATTEND FINAL AND INTERMEDIATE INSPECTIONS OF PROJECT.
- 3. PAYMENT:
- a. DMWW ENGINEERING TECHNICIAN TO REVIEW AND APPROVE ALL INSTALLED QUANTITIES FOR PAY APPLICATIONS ON A DAILY BASIS, AND PRIOR TO PAYMENT.
- b. LUMP SUM BID ITEMS WILL NOT BE MEASURED.
- c. ITEMS NOT LISTED AS SPECIFIC BID ITEMS FOR WATER MAIN WORK WILL NOT BE MEASURED AND WILL BE CONSIDERED AS INCIDENTAL ITEMS. PAY FOR INCIDENTAL BID ITEMS TO BE INCLUDED IN UNIT BID PAYMENTS UNDER BID ITEMS.
- CHANGE ORDERS:
- a. CONTRACTOR AND ENGINEER TO AGREE ON COMPENSATION PRIOR TO COMMENCING ANY WORK THAT IS NOT COVERED BY THE CONTRACT, WORK PERFORMED PRIOR TO AN AGREEMENT WILL NOT BE CONSIDERED FOR COMPENSATION.

5. START OF WORK NOTIFICATION:

a. CONTRACTOR TO NOTIFY DMWW ENGINEERING TECHNICIAN A MINIMUM OF 48 HOURS PRIOR TO START OF WATER MAIN RELATED TO CONSTRUCTION ACTIVITY FOR EACH STAGE OF CONSTRUCTION.

6. EXISTING UTILITY NOTES:

- a. SEVERAL UTILITIES EXIST IN THE VICINITY OF THE WORK AREA. COORDINATE WITH OWNER, AND OTHER UTILITY PROVIDERS, TO LOCATE EXISTING UTILITIES AROUND WORK AREAS PRIOR TO EXCAVATING, NO WORK SHALL BE PERFORMED UNTIL PROPER LOCATES ARE COMPLETE.
- b. LOCATION OF UTILITIES SHOWN ARE DETERMINED FROM BEST AVAILABLE DATA AND AREA INFORMATION ONLY.
- c. CONFIRM LOCATION AND DEPTH OF EXISTING UTILITIES, AS REQUIRED, TO ELIMINATE CONFLICTS PRIOR TO CONSTRUCTION. COORDINATE WITH DMWW STAFF AND OTHER UTILITY COMPANIES WHERE CONFLICTS OCCUR.
- d. PROTECT EXISTING UTILITIES DURING CONSTRUCTION. DO NOT INTERRUPT EXISTING UTILITIES UNLESS AUTHORIZED BY UTILITY OWNER.
- e. CONTRACTOR TO NOTIFY THE DMWW ENGINEERING TECHNICIAN IMMEDIATELY REGARDING CONFLICTS WITH OTHER UTILITIES.
- f. NOTIFY UTILITY COMPANIES PRIOR TO COMMENCING WORK. AVOID DAMAGE TO UTILITIES AND UNDERGROUND FEATURES DURING CONSTRUCTION. REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OPERATIONS AT CONTRACTOR'S EXPENSE.

7. VALVE AND HYDRANT OPERATION:

a. ALL VALVES AND HYDRANTS TO BE OPERATED BY DMWW PERSONNEL ONLY. CONTRACTOR TO COORDINATE WITH ENGINEERING TECHNICIAN 72 HOURS IN ADVANCE OF REQUIRED OPERATION..

8. WATER MAIN SHUTDOWNS:

- a. 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 OF DMWW NORMAL WORKING HOURS (8:00 A.M. TO 4:30 P.M.).
- b. CONTRACTOR TO NOTIFY DMWW A MINIMUM OF 5 DAYS IN ADVANCE OF WATER MAIN SHUTDOWNS. DMWW WILL PROVIDE DOOR TAGS TO CONTRACTOR. DMWW TECHNICIAN TO ASSIST CONTRACTOR IN IDENTIFICATION OF SERVICES REQUIRING CUSTOMER NOTIFICATIONS.
- c. DMWW TO NOTIFY BUSINESS CUSTOMERS A MINIMUM OF 72 HOURS IN ADVANCE OF WATER MAIN SHUTDOWNS. COORDINATE WITH DMWW TECHNICIAN FOR SCHEDULING AND NOTIFICATIONS.

9. CONNECTION TO EXISTING WATER MAINS:

- A. CONTRACTOR TO NOTIFY DMWW ENGINEERING TECHNICIAN A MINIMUM OF 72 HOURS BEFORE BEGINNING WORK THAT REQUIRES ISOLATION OF A PORTION OF THE DISTRIBUTION SYSTEM.
- b. NOTIFY ENGINEER IMMEDIATELY IF CONNECTIONS TO EXISTING SYSTEM CANNOT BE COMPLETED AS SHOWN OR IF MODIFICATIONS ARE REQUIRED.
- CONNECTIONS TO EXISTING FEEDER MAIN WILL ONLY BE ALLOWED DURING LOW DEMAND PERIOD AS DETERMINED BY DMWW, TYPICALLY BETWEEN OCTOBER TO MARCH.

10. FLUSHING, TESTING, AND DISIN

- a. CONTRACTOR REQUIRED TO SWAB AND DISINF CONNECTION TO EXISTING WATER MAIN AND IN
- b. COORDINATE AND SCHEDULE FLUSHING AND C NOTICE. FLUSHING SCHEDULE TO BE DICTATED TABLET METHOD IS NOT ALLOWED. DECHLORIN
- c. CONTRACTOR SHALL COMPLETE WATER MAIN PROJECT SPECIFICATIONS. TESTING IS INCIDE
- d. AFTER FAILING TWO CONSECUTIVE SERIES OF USED FOR ADDITIONAL FLUSHING AND CHARGE
- e. CORPORATION STOP FOR SAMPLING AND THE CHLORINATION AND TESTING IS COMPLETE.
- f. IF TEST RESULTS DO NOT MEET THOSE SPECIF CORRECTIONS AND REPEAT TESTING TO DEMO CONTRACTOR SHALL PAY FOR ALL COSTS ASS
- g. FLUSHING WILL ONLY BE ALLOWED DURING LOV 11. STAGING:

- a. CONTRACTOR TO COORDINATE ACTUAL SCHEE THROUGHOUT THE PROJECT.
- b. INSTALL WATER MAIN IN ACCORDANCE WITH P
- c. REFER TO SECTION 01 00 00 PARAGRAPH 1.12 0 INFORMATION.

FECTION: ECT NEW WATER MAIN, PER AWWA C651, PRIOR TO PRESENCE OF DMWW ENGINEERING TECHNICIAN. HLORINATION PROCEDURES WITH DMWW, GIVE 72 HOURS BY DAILY DEMAND APPROVED BY DMWW. CHLORINATION BY ATION IS REQUIRED. TESTING AND DISINFECTION IN ACCORDANCE WITH THE ITAL TO THE PROJECT. BACTERIALOGICAL TESTING, DMWW MAY METER THE WATER SAMPLING COSTS BACK TO THE CONTRACTOR. CHLORINATION TAP IS TO BE REMOVED AND PLUGGED AFTER		REVISION DATE BY WCF Checked By: CHKD Scale: 1" = NONE	an:LM pate: 10-19-2023 T-R-S: / Project No. 548-872-9010 Sheet 4
IED, THE CONTRACTOR WILL MAKE NECESSARY INSTRATE COMPLIANCE WITH THE SPECIFICATIONS. OCIATED WITH RETESTING AT ITS OWN EXPENSE. IN DEMAND PERIODS, AS DETERMINED BY DMWW. PULE AND SEQUENCE WITH DMWW ENGINEERING TECHNICIAN ROJECT STAGING REQUIREMENTS.		NDALE, IOWA Enginee	SNYDER BLVD IOWA 50023 BMWM snyder-associates.com
	DMWW HICKMAN ROAD FEEDER MAIN RELOCATIO		SNYDER & ASSOCIATES, INC. S154642001
	S N & AS	Y [DER

POLLUTION PREVENTION AND EROSION PROTECTION

- CODE COMPLIANCE: THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL POTENTIAL POLLUTION AND SOIL 1.1. EROSION CONTROL REQUIREMENTS OF THE JOWA CODE. THE IOWA DEPARTMENT OF NATURAL RESOURCES (IDNR) NPDES PERMIT, THE U.S. CLEAN WATER ACT AND ANY LOCAL ORDINANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT AGAINST EROSION AND POLLUTION FROM THIS PROJECT SITE AND ALL OFF-SITE BORROW OR DEPOSIT AREAS DURING PERFORMANCE OR AS A RESULT OF PERFORMANCE
- DAMAGE CLAIMS: THE CONTRACTOR WILL HOLD THE OWNER AND ARCHITECT / ENGINEER HARMLESS FROM ANY AND ALL 1.2. CLAIMS OF ANY TYPE WHATSOEVER RESULTING FROM DAMAGES TO ADJOINING PUBLIC OR PRIVATE PROPERTY INCLUDING REASONABLE ATTORNEY FEES INCURRED TO OWNER. FURTHER, IF THE CONTRACTOR FAILS TO TAKE NECESSARY STEPS TO PROMPTLY REMOVE EARTH SEDIMENTATION OR DEBRIS WHICH COMES ONTO ADJOINING PUBLIC OR PRIVATE PROPERTY, THE OWNER MAY, BUT NEED NOT, REMOVE SUCH ITEMS AND DEDUCT THE COST THEREOF FROM AMOUNTS DUE TO THE CONTRACTOR.

STORM WATER DISCHARGE PERMIT

- THIS PROJECT REQUIRES COVERAGE UNDER THE NPDES GENERAL PERMIT NO. 2 FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDNR, AS REQUIRED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR COMPLIANCE WITH AND FULFILLMENT OF ALL REQUIREMENTS OF THE NPDES GENERAL PERMIT NO. 2 AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- ALL DOCUMENTS RELATED TO THE STORM WATER DISCHARGE 1.2. PERMIT, INCLUDING, BUT NOT LIMITED TO, THE NOTICE OF INTENT, PROOF OF PUBLICATIONS, DISCHARGE AUTHORIZATION LETTER, CURRENT SWPPP, SITE INSPECTION LOG, AND OTHER ITEMS, SHALL BE KEPT ON SITE AT ALL TIMES AND MUST BE PRESENTED TO ANY JURISDICTIONAL AGENCIES UPON REQUEST. FAILURE TO COMPLY WITH THE NPDES PERMIT REQUIREMENTS IS A VIOLATION OF THE CLEAN WATER ACT AND THE CODE OF IOWA.
- 1.3. A "NOTICE OF DISCONTINUATION" MUST BE FILED WITH THE IDNR UPON FINAL STABILIZATION OF THE DISTURBED SITE AND REMOVAL OF ALL TEMPORARY EROSION CONTROL MEASURES. ALL PLANS, INSPECTION REPORTS, AND OTHER DOCUMENTS MUST BE RETAINED FOR A PERIOD OF THREE YEARS AFTER PROJECT COMPLETION THE CONTRACTOR SHALL RETAIN A RECORD COPY AND PROVIDE THE ORIGINAL DOCUMENTS TO THE OWNER UPON PROJECT ACCEPTANCE AND/OR SUBMITTAL OF THE NOTICE OF DISCONTINUATION

2. POLLUTION PREVENTION PLAN

- THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS A SEPARATE DOCUMENT IN ADDITION TO THESE PLAN DRAWINGS. 2.1 THE CONTRACTOR SHOULD REFER TO THE SWPPP FOR ADDITIONAL REQUIREMENTS AND MODIFICATIONS TO THE POLLUTION PREVENTION PLAN MADE DURING CONSTRUCTION
- THE SWPPP ILLUSTRATES GENERAL MEASURES AND BEST 2.2. MANAGEMENT PRACTICES (BMP) FOR COMPLIANCE WITH THE PROJECT'S NPDES PERMIT COVERAGE. ALL BMP'S AND EROSION CONTROL MEASURES REQUIRED AS A RESULT OF CONSTRUCTION ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, NOTE AND IMPLEMENT. ADDITIONAL BMP'S FROM THOSE SHOWN ON THE PLAN MAY BE REQUIRED
- THE SWPPP AND SITE MAP SHOULD BE EXPEDITIOUSLY REVISED TO REFLECT CONSTRUCTION PROGRESS AND CHANGES AT THE 2.3. PROJECT SITE
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL PERMIT AND SWPPP. 2.4 INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING BMP'S UNLESS INFEASIBLE OR NOT APPLICABLE:
- UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER 241 FROM THE SURFACE WHEN DISCHARGING FROM BASINS PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATERS, DIRECT STORM WATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORM WATER INFILTRATION, AND MINIMIZE SOIL COMPACTION.
- INSTALL PERIMETER AND FINAL SEDIMENT CONTROL 2.4.2. MEASURES SUCH AS SILT BARRIERS, DITCH CHECKS, DIVERSION BERMS, OR SEDIMENTATION BASINS DOWNSTREAM OF SOIL DISTURBING ACTIVITIES PRIOR TO SITE CLEARING AND GRADING OPERATIONS
- 2.4.3. PRESERVE EXISTING VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION AND LIMIT TO A MINIMUM THE TOTAL AREA DISTURBED BY CONSTRUCTION OPERATIONS AT ANY
- MAINTAIN ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES IN WORKING ORDER, INCLUDING CLEANING, REPAIRING, REPLACEMENT, AND SEDIMENT REMOVAL THROUGHOUT THE PERMIT PERIOD. CLEAN OR 2.4.4 REPLACE SILT CONTROL DEVICES WHEN THE MEASURES HAVE LOST 50% OF THEIR ORIGINAL CAPACITY.

- 2.4.5. INSPECT THE PROJECT AREA AND CONTROL DEVICES (BY QUALIFIED PERSONNEL ASSIGNED BY THE CONTRACTOR) EVERY SEVEN CALENDAR DAYS. RECORD THE FINDINGS OF THESE INSPECTIONS AND ANY RESULTING ACTIONS IN THE SWPPP WITH A COPY SUBMITTED WEEKLY TO THE OWNER OR ENGINEER DURING CONSTRUCTION. REVISE THE SWPPP AND IMPLEMENT ANY RECOMMENDED MEASURES WITHIN 7 DAYS
- PREVENT ACCUMULATION OF EARTH AND DEBRIS FROM CONSTRUCTION ACTIVITIES ON ADJOINING PUBLIC OR 2.4.6. PRIVATE PROPERTIES, INCLUDING STREETS, DRIVEWAYS, SIDEWALKS, DRAINAGEWAYS, OR UNDERGROUND SEWERS. REMOVE ANY ACCUMULATION OF EARTH OR DEBRIS IMMEDIATELY AND TAKE REMEDIAL ACTIONS FOR FUTURE PREVENTION
- INSTALL NECESSARY CONTROL MEASURES SUCH AS SILT BARRIERS, EROSION CONTROL MATS, MULCH, DITCH 2.4.7. CHECKS OR RIPRAP AS SOON AS AREAS REACH THEIR FINAL GRADES AND AS CONSTRUCTION OPERATIONS PROGRESS TO ENSURE CONTINUOUS RUNOFF CONTROL. PROVIDE INLET AND OUTLET CONTROL MEASURES AS SOON AS STORM SEWERS ARE INSTALLED.
- RESPREAD A MINIMUM OF 4 INCHES OF TOPSOIL (INCLUDING TOPSOIL FOUND IN SOD) ON ALL DISTURBED AREAS, EXCEPT WHERE PAVEMENT, BUILDINGS OR OTHER 2.4.8. PROVEMENTS ARE LOCATED
- STABILIZE UNDEVELOPED, DISTURBED AREAS WITH MULCH, 249 TEMPORARY SEED MIX, PERMANENT SEED MIX, SOD, OR PAVEMENT IMMEDIATELY AS SOON AS POSSIBLE UPON COMPLETION OR DELAY OF GRADING OPERATIONS INITIATE STABILIZATION MEASURES IMMEDIATELY AFTER CONSTRUCTION ACTIVITY IS FINALLY COMPLETED OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WHICH WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- COORDINATE LOCATIONS OF STAGING AREAS WITH THE 2.4.10. OWNER AND RECORD IN THE SWPPP LINE SS NOTED. OTHERWISE, STAGING AREAS SHOULD CONTAIN THE FOLLOWING: JOB TRAILERS, FUELING / VEHICLE MAINTENANCE AREA, TEMPORARY SANITARY FACILITIES, MATERIALS STORAGE, AND CONCRETE WASHOUT FACILITY, CONTROL RUNOFF FROM STAGING AREAS WITH DIVERSION BERMS AND/OR SILT BARRIERS AND DIRECT TO A SEDIMENT BASIN OR OTHER CONTROL DEVICE WHERE POSSIBLE. CONCRETE WASHOUT MUST BE CONTAINED ONSITE.
- REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND SITE WASTE PRIOR TO FILING OF THE "NOTICE OF 2.4.11. DISCONTINUATION".

POLLUTION PREVENTION RESPONSIBILITIES FOR THE SITE 2412 WILL BE TRANSFERRED TO THE IOWA DOT AS PART OF THE HICKMAN ROAD INTERCHANGE PROJECT STARTING JANUARY 31.2025

F	POLLUTION PREVENTION RESPONSIBILITIES					
	TASK	OWN ER	ENGI NEER	CONTRACTOR		
1	CREATE THE INITIAL SWPPP.			х		
2	PUBLISH THE PUBLIC NOTICE OF STORM WATER DISCHARGE.			х		
3	FILE THE PUBLIC NOTICE OF INTENT WITH APPLICATION FEE FOR NPDES GENERAL PERMIT NO. 2 COVERAGE.			х		
4	SIGN NPDES CERTIFICATION STATEMENT AS PERMITTEE OR CO-PERMITTEE.			х		
5	COORDINATE CERTIFICATION OF SUBCONTRACTOR CO-PERMITTEES.			х		
6	COMPLY WITH THE REQUIREMENTS OF THE GENERAL PERMIT NO.2 AND THE SWPPP.			х		
7	INSTALL, MAINTAIN AND REMOVE EROSION CONTROL AND POLLUTION PREVENTION MEASURES.			х		
8	WEEKLY INSPECTIONS AND CORRESPONDING RECORDS.			х		
9	UPDATE AND MAINTAIN THE ONSITE SWPPP.			х		
10	COOPERATE TO PROVIDE INFORMATION UNDER THE RESPONSIBILITY OF OTHERS.			х		
11	SUBMIT THE NOTICE OF DISCONTINUATION.			х		
12	ALL REQUIREMENTS NOT ASSIGNED TO OTHERS.			х		

WATER MAIN CONSTRUCTION NOTES

1. GENERAL CONSTRUCTION

- COORDINATE THE CONSTRUCTION TO MINIMIZE THE DISRUPTIONS TO THE ADJACENT PROPERTIES. ANY AREAS DISTURBED BY CONSTRUCTION OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE REPAIRED AND RESTORED AT THE
- DO NOT RESTRICT DRAINAGE CHANNELS AND PROTECT ALL EXISTING DRAINAGE STRUCTURES. CONTRACTOR FULLY LIABLE FOR ALL DAMAGES TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN THE HANDLING OF STORM WATER FLOWS DURING CONSTRUCTION. ANY EXTRA GRADING WORK NEEDED TO MAINTAIN POSITIVE DRAINAGE WITHIN THE CONSTRUCTION LIMITS IS INCIDENTAL TO CONSTRUCTION
- REPAIR ALL FIELD/DRAIN TILES THAT ARE ENCOUNTERED DURING CONSTRUCTION c. AS SPECIFIED. RECORD THE EXISTING TYPE, SIZE, LOCATION AND DEPTH OF ALL FIELD/DRAIN TILES ENCOUNTERED AND REPAIRED DURING CONSTRUCTION. PROVIDE DATA TO THE ENGINEER FOR INCORPORATION INTO THE RECORD
- PROTECT AND KEEP DEBRIS DEPOSITED BY THE CONSTRUCTION OFF OF ADJACENT PROPERTIES OUTSIDE THE EASEMENT AREA AND STREETS. REMOVE AND REPAIR d. ANY DAMAGE WITHOUT ADDITIONAL COMPENSATION
- CONTRACTORS SHALL SATISFY THEMSELVES PRIOR TO SUBMISSION OF BIDS AS TO THE SOIL CONDITIONS
- PROTECT AND SAVE ALL PROPERTY CORNER MONUMENTS. REPLACE IF REMOVED OR DAMAGED
- DIMENSIONS, STREET LOCATIONS, UTILITIES, AND GRADING ARE BASED ON g. AVAILABLE INFORMATION AT THE TIME OF DESIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. REPORT ANY SUCH CHANGES OR CONFLICTS BETWEEN THE PLAN AND FIELD CONDITIONS TO ENGINEER IMMEDIATELY
- IN THE EVENT OF A DISCREPANCY BETWEEN THE QUANTITY ESTIMATES AND THE DETAILED PLANS, THE DETAILED PLANS SHALL GOVERN.
- MAINTAIN EMERGENCY ACCESS ON ALL STREETS AND ALL AFFECTED PROPERTIES AT ALL TIMES.

2. SITE PREPARATION

d.

- PROVIDE EROSION CONTROL MEASURES NECESSARY TO PROTECT AGAINST SILTATION, EROSION AND DUST POLLUTION WITHIN CONSTRUCTION LIMITS AND ANY OFF-SITE AREAS USED FOR THIS PROJECT. COMPLY WITH SOIL EROSION CONTROL REQUIREMENTS OF IOWA CODE AND LOCAL ORDINANCES.
- REMOVE ONLY TREES NOTED FOR REMOVAL ON PLANS. PRESERVE AS MUCH BRUSHY VEGETATION AS POSSIBLE, ONLY CLEAR THE MINIMUM REQUIRED TO COMPLETE THE CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR CONSTRUCTING AND MAINTAINING ALL ACCESSES TO THE CONSTRUCTION LIMITS. THE ACCESSES MUST BE ADEQUATELY SIZED AND PROPERLY SURFACED FOR UTILIZATION BY CONSTRUCTION VEHICLES AND INCLUDE PROVISIONS TO MAINTAIN POSITIVE DRAINAGE. WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, UNLESS NOTED OTHERWISE
- CONTRACTOR SHALL REMOVE AND REPLACE, OR TEMPORARILY COVER, ALL EXISTING PERMANENT TRAFFIC SIGNS THAT ARE IN CONFLICT WITH THE CONSTRUCTION. NOTIFY THE OWNER 5 DAYS BEFORE CONSTRUCTION BEGINS. PROVIDE TEMPORARY SIGNS IF TRAFFIC IS MAINTAINED. PROTECT ALL CITY SIGNS AND POST NOT REMOVED.
- BLADING, SHAPING OR MAINTENANCE OF TEMPORARY CONNECTIONS, CROSSINGS DETOURS OR TEMPORARY ACCESSES SHALL BE INCIDENTAL TO THE PROJECT.
- OWNER HAS FIRST RIGHT OF REFUSAL TO RETAIN ANY MATERIAL REMOVED FROM THE PROJECT AREA. IF DIRECTED, DELIVER ITEMS OR MATERIALS TO OWNER AT LOCATION DESIGNATED BY THE OWNER. DISPOSE OF NON-SALVAGEABLE MATERIALS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS
- PROVIDE WASTE AREAS OR DISPOSAL SITES FOR WASTE MATERIAL (ASPHALTIC CONCRETE, STEEL OR BROKEN CONCRETE). NO EXTRA PAYMENTS WILL BE MADE FOR MATERIAL HAULED TO THESE SITES. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS. DO NOT PLACE WASTE MATERIAL WITHIN THE RIGHT-OF-WAY. KEEP CONSTRUCTION DEBRIS AND DIRT OFF OF THE ADJACENT PROPERTIES AND STREETS
- STRIP, SALVAGE AND RESPREAD TOP 6 INCHES OF TOPSOIL IN ALL AREAS WITHIN THE CONSTRUCTION LIMITS, EXCEPT AREAS NOT DISTURBED BY CONSTRUCTION.

3. TRENCHED CONSTRUCTION

- INSTALLED WATER MAIN.

- d.
- DO NOT OVER-SEAT PIPE
 - g.
- h.

4. TRACER WIRE SYSTEM

- BEFORE THE WATER MAIN IS PUT IN SERVICE.
- b. SPECIFIED

5. SURFACE RESTORATION

- а. IN PLACE AT END OF DMWW PROJECT.
- CONSTRUCTION
- d.

INSTALL WATER MAIN AT A MINIMUM DEPTH OF 5.5' OR AS SHOWN ON PLANS. DO NOT INSTALL THE WATER MAIN WITH ANY ARTIFICIAL HIGH POINTS. IMMEDIATELY NOTIFY THE ENGINEER IF THERE ARE ANY DEVIATIONS TO THE ELEVATION OF THE

INSTALL WATER MAIN IN DRY TRENCH CONDITIONS. DO NOT ALLOW WATER TO RISE IN THE TRENCH AROUND THE PIPE. INSTALL DEWATERING SYSTEM AS REQUIRED. NO COMPENSATION WILL BE MADE DUE TO HIGH GROUND WATER CONDITIONS.

PRIOR TO OPEN TRENCH OR TRENCHLESS METHOD INSTALLATION OF THE WATER MAIN, EXPOSE ALL EXISTING UTILITIES IN THE PROPOSED PATHWAY. NOTIFY

INSTALL AND MAINTAIN TEMPORARY CONSTRUCTION FENCE AROUND ALL OPEN TRENCHES OR EXCAVATIONS WHEN LEFT UNATTENDED

WATER MAIN SHALL BE PRE-STRESSED CONCRETE CYLINDER PIPE (PCCP) OR DUCTILE IRON PIPE (DIP) AS SPECIFIED. PIPE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

INSERT PUSH-ON PIPE INTO BELL END PER MANUFACTURER'S RECOMMENDATION.

PREVENT ANY DIRT OR FOREIGN MATERIAL FROM ENTERING PIPE BY INSTALLING TEMPORARY PLUG OR CAP ON PIPE END DURING ANY STOPPAGE OF INSTALLATION.

INSTALL POLYETHYLENE ENCASEMENT PER AWWA C105 ON ALL DUCTILE IRON PIPE.

COMPACT ALL TRENCH BACKFILL, UNDER PAVED SURFACES, AND WITHIN RIGHT-OF-WAY TO 95% STANDARD PROCTOR DENSITY, OR AS SPECIFIED.

ALL ACCESS STATIONS FOR THE TRACER WIRE MUST BE PROPERLY INSTALLED

INSTALL TRACER WIRE WITH ALL WATER MAIN INCLUDING TERMINATIONS AS

INSTALL PROTECTIVE FENCING AROUND ALL TEST STATIONS CONSISTING OF FOUR (4) STEEL T-POSTS (6 FT LENGTH) SPACED 24" APART. WRAP POSTS WITH ORANGE SAFETY CONSTRUCTION FENCE AND WIRE TO POSTS WITH A MINIMUM OF FOUR (4)

NEW PRIMARY CONSTRUCTION ACCESS CONSTRUCTED FOR PROJECT WILL REMAIN

ALTERNATE CONSTRUCTION ACCESS IMPROVEMENTS WILL REMAIN IN PLACE AT

SURFACE RESTORATION INCLUDES THE REMOVAL OF ALL GRANULAR MATERIAL FROM THE TOP 6 INCHES OF TOPSOIL. THIS WORK IS INCIDENTAL TO

MULCH ALL DISTURBED AREAS WITH HYDROMULCH IN ACCORDANCE WITH IOWA DOT STANDARD SPECIFICATION SECTION 2601.

F She	SN & AS Projec	DMWW HICKMAN ROAD FEEDER MAIN RELOCATION					
ile No et	Y is o	GENERAL NOTES	ALE IOWA	MARK	REVISION	DATE	ΒY
o. 3 5	1 23			Engineer: WCF	Checked By: CHKD	Scale: 1" =	
131				Technician:LM	Date: 10-19-2023	T-R-S:	
1	E R T ES 13.01	SNYDER & ASSOCIATES, INC. 2775 W. SITTEN, INK. SITTER, INK. SITTER, INK. INK. INK. INK. INK. INK. INK. INK.	R BLVD 50023 -associates.com	DMWW Projec S&A Project N	. No. 548-872-9010 5. 123.0213	Sheet 5	



			TE BY 100'	6 2
			» 1"=)t 6
			Scale	Shee
	. State ansate and a state of the		ON WCF	2023 72-9010 01
		24-13-77	REVISIO ecked By:	e: 02/21/ 548-87 3.0213
	FEET	0-3(264)1	Ğ	s Dat pject No. 12
	1 Marrow	IM-08	K neer: WCF	Morian: JD MW Pro A Project
	A B Annata James		MAR	M S S M M M M M M M
			MA	ES.COI
	CALL AND	Z	<u>0</u>	VD 23 SOCIAT
	Alexandre alle	ĭ₽	ALE	DER BL NA 5002 JER-AS
		A S	ND ND	V SNYI NY, IOV V.SNYE
		Ŏ	RB∕	2727 S ANKE
	7			34-2020
	7			515-9(
		AIN		-
Image: Signal	P. P. P. P. P. P. V. P.	Ź		N
	an a setter the the set of the set	L L L		=
HICKMAN ROAD/ HWY 6 HICKMAN ROAD HWY 6 HICKMAN ROAD HWY 6 HICKMAN ROAD HWY 6 HICKMAN ROAD HWY 7 HICKMAN HWY 7		Ö		Ś
Important room Important room Important room Important		Ш		巴
ALIEN CONTROL TABLE 323 X3332367 MASSAGE X333267		Ш		A
ALIGN CONTROL TABLE 32 ALIGN CONTROL TABLE 32 XASSO 2.89 MASSO 2.80 MASSO 2.80 <tr< th=""><th>A A A A A A A A A A A A A A A A A A A</th><th>AL M</th><th></th><th>C</th></tr<>	A A A A A A A A A A A A A A A A A A A	AL M		C
S S		R C C		0
ALIGN CONTROL TABLE 3.2 ALIGN CONTROL TABLE 3.2 ALIGN CONTROL TABLE 3.2 MASSO 2.8 3.4 MASSO 2.8 4.4 MASSO 2.8 4.4 <th>5165 5 5165777,80</th> <th>z</th> <th></th> <th>SS</th>	5165 5 5165777,80	z		SS
ALIGN CONTROL TABLE 322 ALIGN CONTROL TABLE 322 X3300 X43306 X44306 X44306 X444306 X444306		A A		A
ALIGN CONTROL TABLE 5.22 3.6 EASTING AKAGON CONTROL TABLE 5.22 3.6 EASTING AKAGON CONTROL TABLE 5.23 3.6 EASTING AKAGON CONTROL TABLE 5.23 3.6 AKAGON CONTROL TABLE 5.2 3.6 CONTROL TABLE 5.2 AKAGON CONTROL TAB		X		త
ALIGN CONTROL TABLE 522 3.56 EASTING ANGLE LENGTH TANGENT RADIUS PT ANGLE LENGTH ANGLE LENGTH ANGLE LENGTH ANGLE LENGT		∣₽	Ш	2
5.82 5.65 EASTING DELTA ARC ANGLE LENGTH TANGENT RADIUS PT EASTING 4483865.99 4483865.99 4483866.1.22 4483861.32 4483867.46 448392.87		N N	, SΗ	ш
C. U. M.O. ANGLE LENGTH MORTHING EASTING 1483805.99 1 1 1 1 1 1483805.99 1 1 1 1 1 1 1483805.99 1	5.82 9.56 FASTING DELTA ARC TAN/GENIT RADIUS PT RADIUS PT	\leq	VΕΥ	
3433861.32 3433861.32 3433861.32 3433861.32 3433862.89 3433862.89 343387.46 343387.46 343392.37 343392.37 343392.37 343396.61 343396.61 343392.37 343392.37 343392.37 343392.37 343392.37 343392.37 343392.61 34392.1 344392.1 3444392.31 3484476.51 3484476.51 3484476.51 3484476.52 3484476.52 34844598.31 3484459.22 3484459.21 3484459.21 3484476.51 3484476.51 3484459.21 3484459.21 3484459.21 3484459.21 3484459.21 3484459.21 3484459.21 3484459.21 348459.22 348459.22 349459 348459	LENGTH IANGENT NORTHING EASTING \$483103.89	Σ	ÜŖ	Z
943300.69 943300.69 343376.46 943376.46 343327.87 943300.61 343323.87 943300.61 343326.51 944396.51 344327.46 944396.51 348324.21 9444396.51 3484476.51 944423.21 3484476.51 944423.21 3484476.51 944423.21 3484476.51 944423.21 3484476.51 944423.21 3484476.53 944423.21 3484476.54 944423.21 3484476.55 944423.21 3484476.51 944423.21 3484476.53 944423.21 3484476.54 944423.21 3484476.55 944423.21 3484476.51 944423.21 3484476.51 9444538.31 3484476.52 944538.31 3484457.52 944538.31 3484457.52 944538.31 944539.31 944539.31 944539.32 944539.31 944539.31 944539.31 944539.32 944539.31 944539.31 944539.31	4433661.32 443366.29 900000 00		S	S
348323.87 3483324.87 348324.86 3483346.86 3483246.86 3483346.86 3483246.86 3483346.86 3483423.21 3484376.51 3484476.51 3484376.51 3484476.51 3484376.81 3484478.8.31 3484376.83 3484475.7.52 3131 8484657.52 3131	9463302.891 9483876.46 9483876.46 9483923.87			
Single State Single State 3484396.51 3484423.21 3484423.21 3484476.51 3484476.51 3484476.51 3484476.51 3484476.51 3484476.51 3484476.51 3484476.51 3484476.51 3484476.51 3484576.21 3484576.23 3131 3484675.752 3131	9483923.87 8483946.86 9483946.86			
3884476.51 SINTDER 3464476.51 3464516.48 3484516.48 3484556.31 3484556.31 51 3484657.52 3131 3484657.52 3131	9494396.51 4844396.51 4844423.21			
3484536.31	8484476.51		soci	ノ ニド ATES
3484657.52 9485032.41	9404470.51 8484516.48			
Sheet 6	040447(0-0) 9484516,48 9484516,48 9484530,31 9484530,31 9484530,31 9484530,31 9484537,52 9484537,52	File No:	212	1











