2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

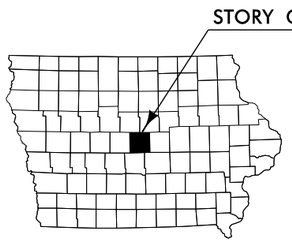
DIVISION 1

SEGMENT 1 – NORTH 11TH STREET ASPHALT CONSTRUCTION
SEGMENT 2 – LINCOLN HIGHWAY ASPHALT OVERLAY

DIVISION 2

OPTION A – S-14 PCC FULL DEPTH RECONSTRUCTION
OPTION B – S-14 ASPHALT FULL DEPTH RECONSTRUCTION

CITY OF NEVADA



INDEX OF SHEETS

REFER TO SHEET A.02 FOR LOCATION MAP

HR GREEN PROJECT NUMBER: 201191

THE 2022 URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS MANUAL SHALL APPLY TO CONSTRUCTION ON THIS PROJECT.

LICENSED PROFESSIONAL ENGINEER
LARRY J. STEVENS 09350
IOWA

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.

LARRY J. STEVENS, P.E. 09350 DATE
License Number: 09350
My license renewal date is December 31, 2021.
Pages or sheets covered by this seal:
ALL SHEETS

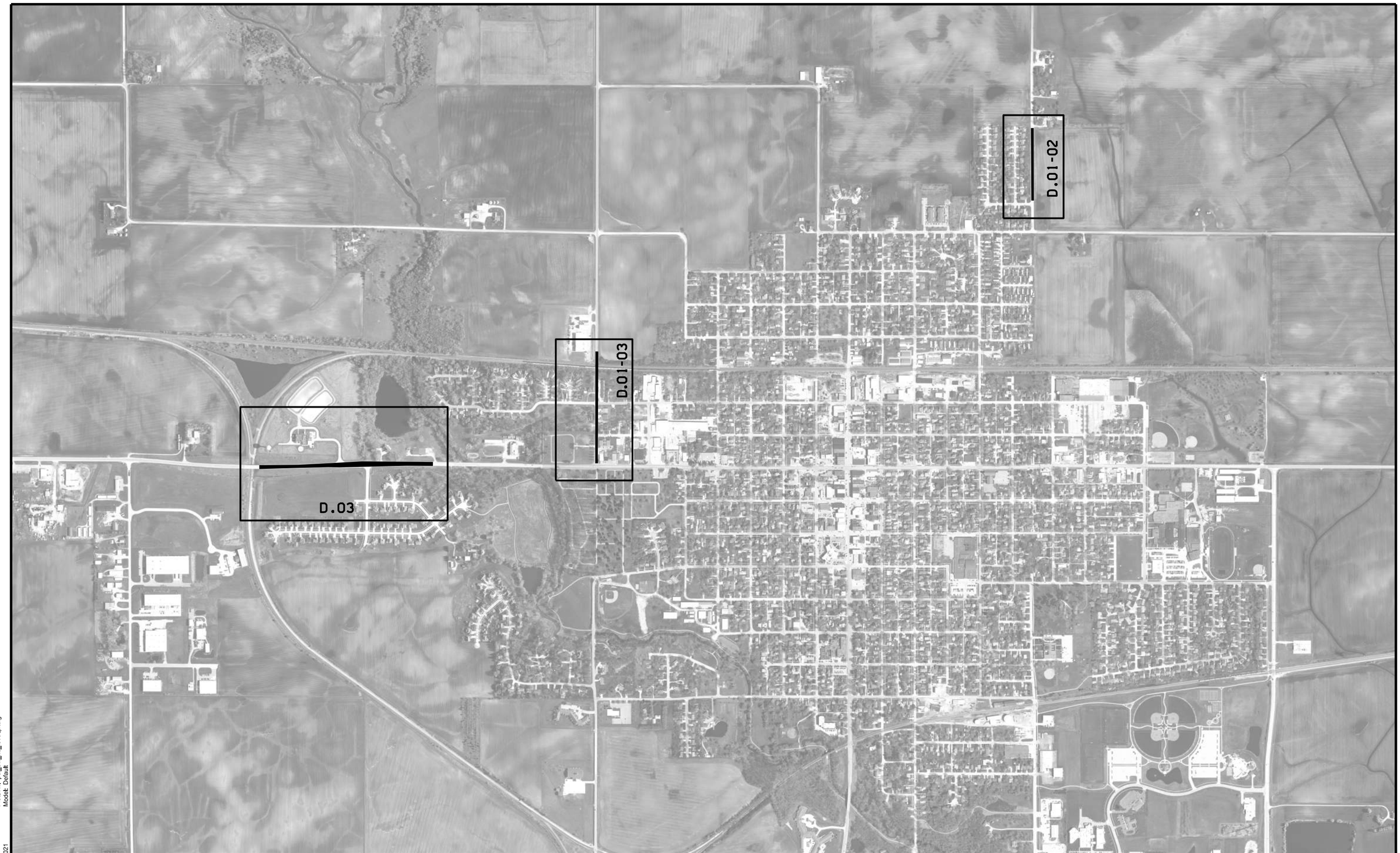
PRELIMINARY NOT FOR CONSTRUCTION

HRGreen

5525 MERLE HAY ROAD, SUITE 200 | JOHNSTON, IOWA 50131-1448
Phone: 515.278.2913 | Toll Free: 800.728.7805 | Fax: 515.278.1846 | HRGreen.com

SHEET NO.
A.01

PlotDrvr: pdf_bw_no_level.pltcfg
Model: Default
PenTbl: hrg.tbl
Last Saved: 11/16/2021
12/6/2021 hmanter \\hrgdmnas\Data\40100100\Streets - Miscellaneous Projects\11th St U avenue to W avenue Nevada\CAD\Sheets\SHT_40100100_A01.DGN



PlotDrvr: pdf_bw_no_level.pltcfg
Model: Default

PenTbl: hrg.tbl
Last Saved: 11/16/2021

DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021 8:27:28 AM	hmanter		
CAD FILE: ...\Sheets\SHT_40100100_A01.DGN			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
HRGreen.com

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

LOCATION MAP

SHEET NO.
A.02

STANDARD SYMBOLS

	Evergreen Tree	— - - W — - -	Existing Water Line
	Deciduous Tree	— - - W2 — - -	Existing Water Line (Service)
SB	Shrub (Bushes)	— — San. — — ·	Existing Sanitary Sewer Line
	Timber	— — San. 2 — —	Existing Sanitary Sewer Service Line
	Hedge	— — — T — — —	Existing Telephone Line
	Stump	— — - T2 — — ·	Existing Telephone Line (Second Company)
	Swamp	— — FO-1 — —	Existing Fiber Optics
	Revetment (Rip Rap)	— — St. S. — —	Existing Storm Sewer Line
†	Cemetery	— — G — —	Existing Gas Line
G	Grave	— — G-HP — —	Existing High Pressure Gas Line
	Board Fence	------E------	Existing Power Line
— # — #	Chain Link or Security Fence	— — — TV — — —	Cable Television Line
— × —	Wire Fence	— — — — — — — —	Construction Easement Line
- - - - - ⊙	Tile Outlet	⊙ GV	Gas Valve
—····	Edge of Water	⊙ WV	Water Valve
	Existing Drainage	⊙ SL	Speed Limit Sign
	Proposed Drainage	□ SIGN	Sign
	Right of Way Rail or Lot Corner	⊙ WHU	Water Hook Up
	Concrete Monument	□ EB	Electric Box
	Well	□ TCB	Traffic Signal Control Box
	Beehive Intake	□ RRB	Rail Road Signal Control Box
	Existing Intake	□ TSB	Telephone Switch Box
	Proposed Intake	⊙ CO	Cleanout
	Existing Utility Access (Manhole)		Existing Apron
	Proposed Utility Access (Manhole)		
	Fire Hydrant		
WH	Water Hydrant (Rural)		
ST	Septic Tank		
C	Cistern		
LP	L.P. Gas Tank (No Footing)		
UST	Underground Storage Tank		
	Luminaire		
	Traffic Signal		
	Traffic Signal with Luminaire		
TP	Telephone Pedestal		
TVP	Television Pedestal		
	Telephone Pole		
	Power Pole		
	Telephone Riser Pole		
	Power Riser Pole		

	Shading - Proposed Paved Surface
	Shading - Proposed Granular Surface
	Shading - Proposed HMA Surface
	Shading - Clearing & Grubbing Area

IOWA 1-CALL# 1-800-292-8989

UTILITY LEGEND

E, G — Alliant Energy
Michael Eilderts
(515) 268-3433
MichaelEilderts@alliantenergy.com

FO — Windstream Communications
Locate Desk
(800) 289-1901
LOCATE.DESK@WINDSTREAM.COM

FO2 — Colo Telephone Company
Larry Springer
(641) 377-2202
colotv@netins.net

W, SAN, ST S. — City of Nevada
Kerin Wright
(515) 382-5466
kwright@cityofnevadaiowa.org

TV(D), FO3, T(D) — Mediacom - Cable TV + Fiber
Tim Adreon
(515) 233-2318
tadreon@mediacomcc.com

Iowa Regional Utility Association
Heather Loshaw
(641) 792-7011

Wisconsin Independent Network
Jim Birkenheier
(715) 832-6041

Where public utility fixtures are shown as existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the owners of those utilities prior to the beginning of any construction. The contractor shall afford access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which presently not known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.

The contractor is required to utilize the utility one-call service at (800)-292-8989 at least 48 hours prior to excavating anywhere on the project.

The above utility companies are known to have facilities on the project.

Known utility conflicts are being resolved by each respective utility company. Utility conflicts discovered during construction will be addressed at the time of discovery.

Notify utility companies prior to commencing work. Avoid damage to utilities and services during construction. Repair any damage caused by the contractor's carelessness at the contractor's expense. Coordinate and cooperate with utility companies during construction.

Existing utilities shown on the plans are based on information provided by the utility company. The Contractor shall notify Utility Companies immediately after the award of Contract to develop a written utility coordination action plan for each stage of work to identify and resolved actual conflicts with the existing utilities.

The action plans shall include contacts for the affected utilities, location, and type of conflicts, how each utility conflict will be resolved, and timeframe that each conflict will be resolved. Provide the utility action plans to the Engineer prior to the preconstruction meeting.

It is anticipated that some power poles within the project limits in the public R.O.W. may require relocation by the respective utility. Coordinate with the respective utilities in the relocation of necessary power poles so it is done in a manner that will prevent project delays. Include coordination activities for relocating power poles in the utility coordination action plans.

Provide temporary support for existing utility lines and poles that are encountered during construction until backfilling is complete.

There may be existing utilities services at a shallow depth underneath the pavement. Coordinate with the respective utilities in the lowering and/or replacing of necessary services so they are done in a manner that will prevent project delays. Include coordination activities for lowering and/or replacing the necessary utility services in the utility coordination action plans.

RIGHT OF WAY LEGEND

- Proposed Right of Way
- Existing Right of Way
- Existing and Proposed Right of Way
- Easement and Existing Right of Way
- Easement (Temporary)
- Easement
- Property Line

Legend And Symbol Information Sheet

(Symbols are Typical Only)

PlotDrvr: pdf_bw_no_level.pltcfg
Model: Default

PenTbl: hrg.tbl
Last Saved: 11/16/2021

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 8:29:29 AM hmanter
CAD FILE: ...\Sheets\SHT_40100100_A01.DGN

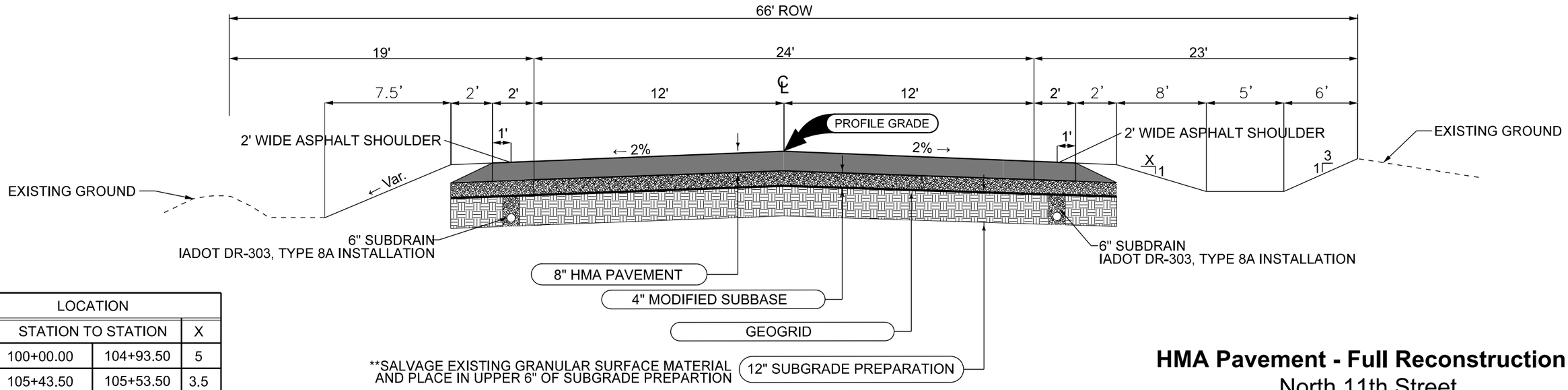
NO.	DATE	BY	REVISION DESCRIPTION

HRGreen HRGreen.com

2022 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2022

LEGEND AND SYMBOLS

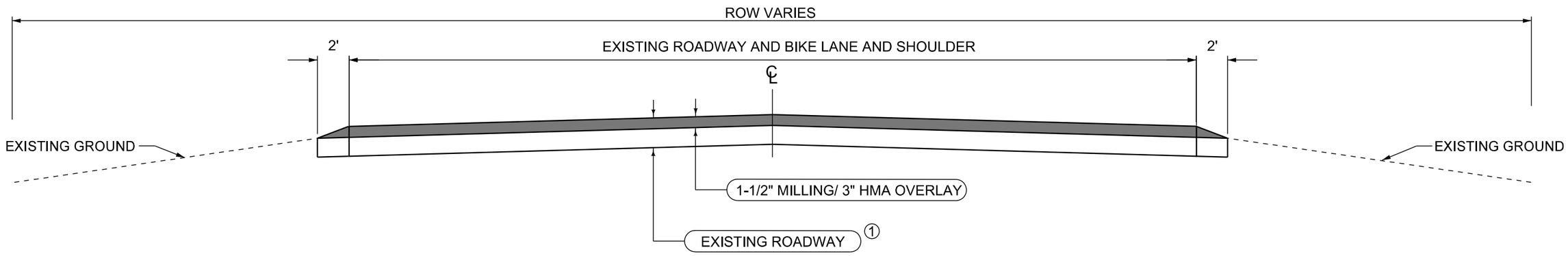
SHEET NO. A.03



LOCATION		
STATION TO STATION		X
100+00.00	104+93.50	5
105+43.50	105+53.50	3.5
106+13.50	108+93.69	5

HMA Pavement - Full Reconstruction

North 11th Street



① EXISTING ROADWAY CROSS SECTION VARIES:
- 4" HMA OVER 7" PCC THROUGHOUT THE MAIN ROADWAY CORRIDOR
- 10" HMA AT RIGHT TURN LANE WIDENING FOR OSAGE DRIVE

3" HMA Overlay Over Existing Roadway

Lincoln Highway

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 1:15:18 PM hmanter
CAD FILE: ...\Sheets\SHT_40100100_B01.dgn

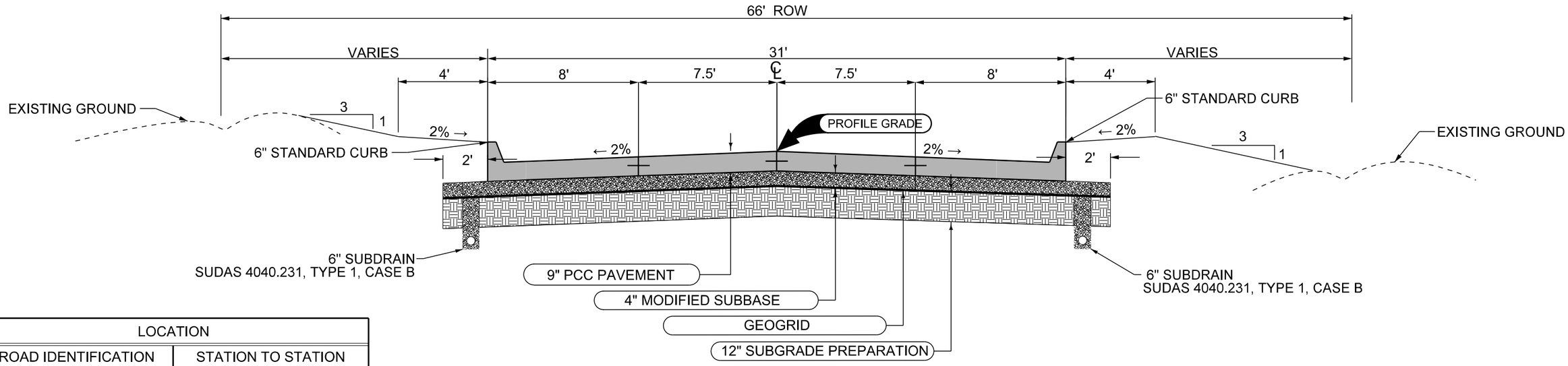
NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2022

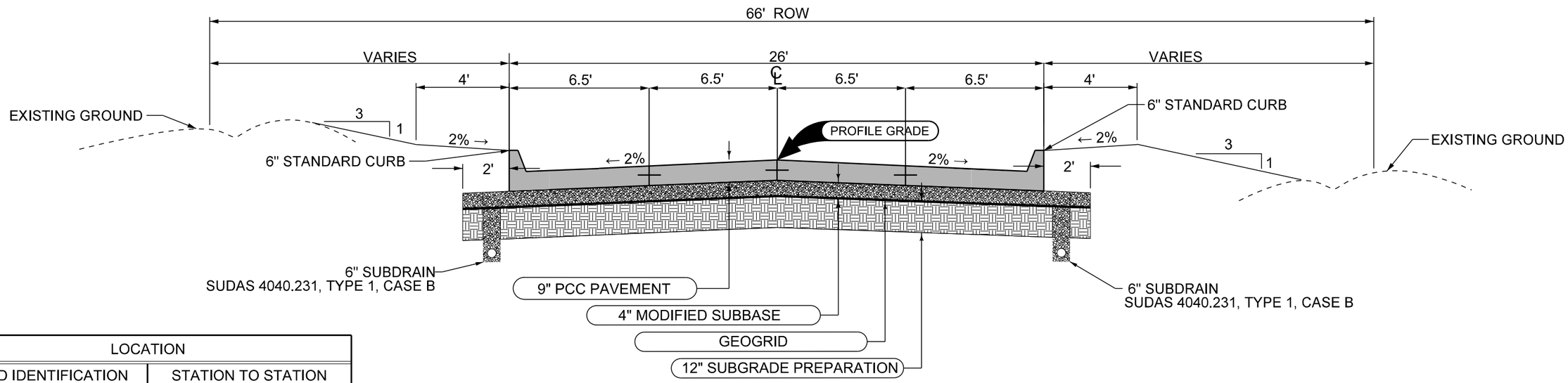
Typical Sections and Details

SHEET NO.
B.01



LOCATION	
ROAD IDENTIFICATION	STATION TO STATION
S-14	200+71.81 - 208+20.45

OPTION A: 31' B-B PCC Pavement - S-14



LOCATION	
ROAD IDENTIFICATION	STATION TO STATION
S-14	208+45.43 - 209+28.96

OPTION A: 26' B-B PCC Pavement - S-14

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 1:15:19 PM hmanter
CAD FILE: ...\Sheets\SHT_40100100_B01.dgn

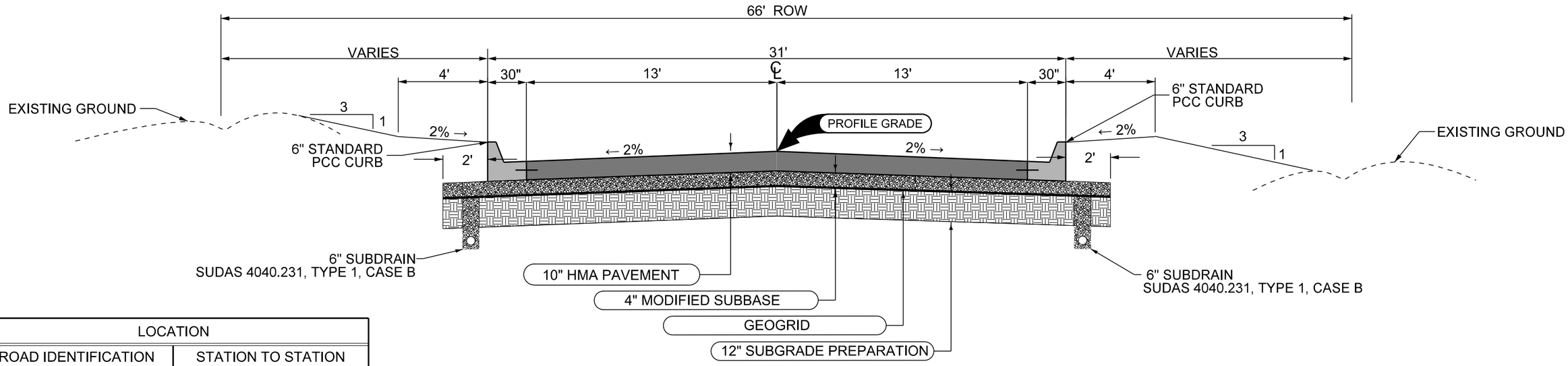
NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2022

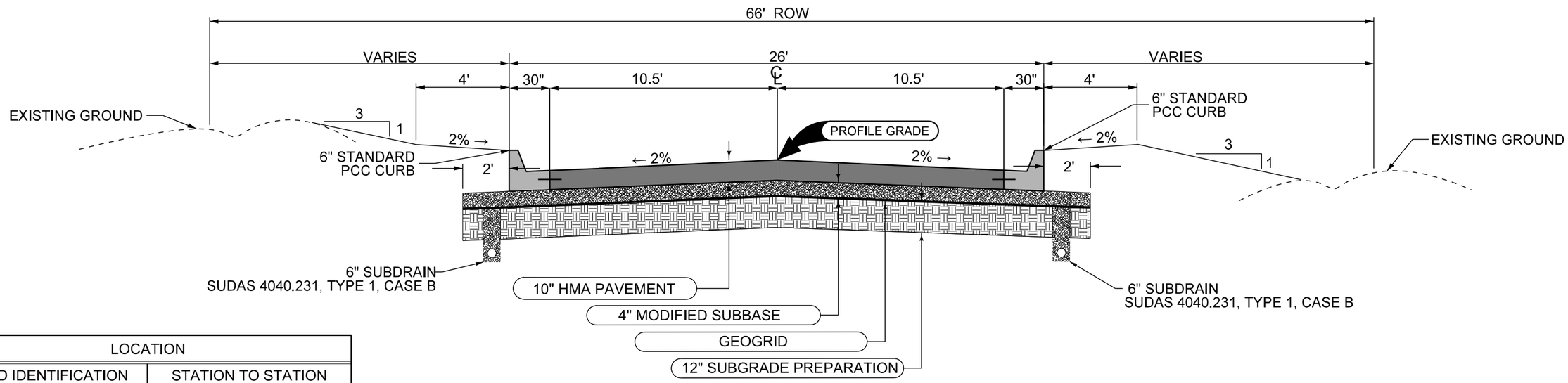
Typical Sections and Detials

SHEET NO.
B.02



LOCATION	
ROAD IDENTIFICATION	STATION TO STATION
S-14	200+71.81 - 208+20.45

OPTION B: 31' B-B HMA Pavement - S-14



LOCATION	
ROAD IDENTIFICATION	STATION TO STATION
S-14	208+45.43 - 209+28.96

OPTION B: 26' B-B PCC Pavement - S-14

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 1:15:20 PM hmanter
CAD FILE: ...\Sheets\SHT_40100100_B01.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2022

Typical Sections and Detials

SHEET NO.
B.03

100-1D
10-18-05

PROJECT DESCRIPTION

This project includes the following:

DIVISION 1 -
A FULL DEPTH ASPHALT RECONSTRUCTION OF NORTH 11TH STREET WITH STORM SEWER IMPROVEMENTS BETWEEN U AVE AND W AVE AND A MILL AND ASPHALT OVERLAY OF LINCOLN HIGHWAY FROM THE RAILROAD OVERPASS EAST APPROXIMATELY 1900 FEET.

DIVISION 2 -
A FULL DEPTH PCC OR ASPHALT RECONSTRUCTION OF S-14 WITH STORM SEWER IMPROVEMENTS FROM THE RAILROAD UNDERPASS SOUTH TO M AVE.

100-1A
07-15-97

ESTIMATED PROJECT QUANTITIES
(1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty.
DIVISION 1					
North 11th Street					
1-A-1	2010-D-1	TOPSOIL ON-SITE	CY	330	
1-A-2	2010-E	EXCAVATION, CLASS 13	CY	1400	
1-A-3	2010-F	BELOW GRADE EXCAVATION	CY	100	
1-A-4	2010-G	SUBGRADE PREPARATION	SY	3165	
1-A-5	2010-H	SUBGRADE TREATMENT, GEOGRID	SY	3165	
1-A-6	2010-I	SUBBASE, MODIFIED 4"	SY	3165	
1-A-7	4020-A	STORM SEWER, TRENCHED, RCP, 12"	LF	40	
1-A-8	4030-B	APRON, PCC, 12"	EA	2	
1-A-9	4040-A	SUBDRAIN, IADOT DR-303 TYPE 8A INSTALLATION, PVC, 6"	LF	2094	
1-A-10	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, PVC, 6"	EA	4	
1-A-11	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, PVC, 6"	EA	6	
1-A-12	6010-E	INTAKE ADJUSTMENT, MINOR	EA	2	
1-A-13	7020-B	PAVEMENT, HMA, 8"	SY	2854	
1-A-14	7020-I	HMA PAVEMENT SAMPLES AND TESTING	LS	1	
1-A-15	7030-A	REMOVAL OF DRIVEWAY, HMA	SY	70	
1-A-16	7040-A	FULL DEPTH PATCHES, PCC	SY	34.4	
1-A-17	7040-X	GRANULAR SURFACING	SY	151	
1-A-18	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1	
1-A-19	9010-A	SEEDING	AC	0.5	
1-A-20	9040-N-1	SILT FENCE	LF	1787	
1-A-21	9040-N-3	REMOVAL OF SILT FENCE	LF	1787	
1-A-22	11020-A	MOBILIZATION	LS	1	
Lincoln Highway					
1-B-1	7020-I	HMA PAVEMENT SAMPLES AND TESTING	LS	1	
1-B-2	7020-X	SHOULDER RESTORATION	TON	50	
1-B-3	7021-B-0	HMA OVERLAY, 3"	TON	1802	
1-B-4	7040-G	MILLING	SY	10679	
1-B-5	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE	STA	81.6	
1-B-6	8020-G	PAINTED SYMBOLS AND LEGENDS, DURABLE	EA	8	
1-B-7	8020-M	GROOVES CUT FOR PAVEMENT MARKINGS	STA	81.6	
1-B-8	8020-N	GROOVES CUT FOR SYMBOLS AND LEGENDS	EA	8	
1-B-9	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1	
1-B-10	11020-A	MOBILIZATION	LS	1	
DIVISION 2					
S-14 (PCC)					
2-A-1	2010-D-3	TOPSOIL OFF-SITE	CY	360	
2-A-2	2010-E	EXCAVATION, CLASS 13	CY	1687	
2-A-3	2010-G	SUBGRADE PREPARATION	SY	3779	
2-A-4	2010-H	SUBGRADE TREATMENT, GEOGRID	SY	3779	
2-A-5	2010-I	SUBBASE, MODIFIED 4"	SY	3779	
2-A-6	4020-A-1	STORM SEWER, TRENCHED, RCP, 15"	LF	512	
2-A-7	4020-A-1	STORM SEWER, TRENCHED, RCP, 18"	LF	24	
2-A-8	4020-A-1	STORM SEWER, TRENCHED, RCP, 24"	LF	584	
2-A-9	4040-A	SUBDRAIN, TYPE 1, PVC, 6"	LF	571	
2-A-10	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, PVC, 6"	EA	1	
2 A 11	4040 D	SUBDRAIN OUTLETS AND CONNECTIONS, PVC, 6"	EA	3	
2-A-12	6010-A	STORM SEWER MANHOLE, SW-401, 48"	EA	2	
2-A-13	6010-B	STORM SEWER INTAKE, SW-507	EA	8	
2-A-14	6010-B	STORM SEWER INTAKE, SW-512, 24"	EA	2	
2-A-15	6010-E	MANHOLE ADJUSTEMENT, MINOR	EA	1	
2-A-16	7010-A	PAVEMENT, PCC, 9"	SY	3379	
2-A-17	7010-I	PCC PAVEMENT SAMPLES AND TESTING	LS	1	
2-A-18	7030-A	REMOVAL OF DRIVEWAY, PCC	SY	184	
2-A-19	7030-H-1	DRIVEWAY, PAVED, PCC, 6"	SY	141	
2-A-20	7030-H-1	DRIVEWAY, PAVED, HMA, 6"	SY	92	
2-A-21	7040-H	PAVEMENT REMOVAL	SY	2896	
2-A-22	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE	STA	7.5	
2-A-23	8020-M	GROOVES CUT FOR PAVEMENT MARKINGS	STA	7.5	
2-A-24	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1	
2-A-25	9020-A	SODDING	SQ	130	
2-A-26	9040-N-1	SILT FENCE	LF	1814	
2-A-27	9040-N-3	REMOVAL OF SILT FENCE	LF	1814	
2-A-28	11020-A	MOBILIZATION	LS	1	
S-14 (Asphalt)					
2-B-1	2010-D-3	TOPSOIL OFF-SITE	CY	360	
2-B-2	2010-E	EXCAVATION, CLASS 13	CY	1687	

100-1A
07-15-97

ESTIMATED PROJECT QUANTITIES
(1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty.
2-B-3	2010-G	SUBGRADE PREPARATION	SY	3779	
2-B-4	2010-H	SUBGRADE TREATMENT, GEOGRID	SY	3779	
2-B-5	2010-I	SUBBASE, MODIFIED 4"	SY	3779	
2-B-6	4020-A-1	STORM SEWER, TRENCHED, RCP, 15"	LF	512	
2-B-7	4020-A-1	STORM SEWER, TRENCHED, RCP, 18"	LF	24	
2-B-8	4020-A-1	STORM SEWER, TRENCHED, RCP, 24"	LF	584	
2-B-9	4040-A	SUBDRAIN, TYPE 1, PVC, 6"	LF	572	
2-B-10	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, PVC, 6"	EA	1	
2-B-11	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, PVC, 6"	EA	3	
2-B-12	6010-A	STORM SEWER MANHOLE, SW-401, 48"	EA	2	
2-B-13	6010-B	STORM SEWER INTAKE, SW-507	EA	8	
2-B-14	6010-B	STORM SEWER INTAKE, SW-512, 24"	EA	2	
2-B-15	6010-E	MANHOLE ADJUSTEMENT, MINOR	EA	1	
2-B-16	7010-E	CURB AND GUTTER, 30"	LF	1816	
2-B-17	7020-B	PAVEMENT, HMA, 10"	SY	2874	
2-B-18	7020-I	HMA PAVEMENT SAMPLES AND TESTING	LS	1	
2-B-19	7030-A	REMOVAL OF DRIVEWAY, PCC	SY	184	
2-B-20	7030-H-1	DRIVEWAY, PAVED, PCC, 6"	SY	141	
2-B-21	7030-H-1	DRIVEWAY, PAVED, HMA, 6"	SY	92	
2-B-22	7040-H	PAVEMENT REMOVAL	SY	2896	
2-B-23	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE	STA	7.5	
2-B-24	8020-M	GROOVES CUT FOR PAVEMENT MARKINGS	STA	7.5	
2-B-25	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1	
2-B-26	9020-A	SODDING	SQ	130	
2-B-27	9040-N-1	SILT FENCE	LF	1814	
2-B-28	9040-N-3	REMOVAL OF SILT FENCE	LF	1814	
2-B-29	11020-A	MOBILIZATION	LS	1	

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
GENERAL		
		REFER TO THE SUDAS STANDARD SPECIFICATIONS - 2022 EDITION FOR ADDITIONAL INFORMATION ON THE FOLLOWING BID ITEMS.
		2022 VERSION AVAILABLE AT: http://www.iowasudas.org/manuals/order-forms/
DIVISION 1		
North 11th Street		
1-A-1	2010-D-1	TOPSOIL ON-SITE
		USE TOPSOIL MEETING REQUIREMENTS OF SUDAS, SECTION 2010, 2.01, C.
1-A-2	2010-E	EXCAVATION, CLASS 13
		INCLUDES REMOVAL OF GRANULAR AREAS.
1-A-3	2010-F	BELOW GRADE EXCAVATION
		1. QUANTITY IS ESTIMATED
		2. WORK TO BE PERFORMED, IF APPROVED BY ENGINEER.
1-A-4	2010-G	SUBGRADE PREPARATION
		COMPACT ACCORDING TO SUDAS, SECTION 2010, 3.06, C.
1-A-5	2010-H	SUBGRADE TREATMENT, GEOGRID
1-A-6	2010-I	SUBBASE, MODIFIED 4"
1-A-7	4020-A	STORM SEWER, TRENCHED, RCP, 12"
		1. DO NOT USE JOINTING MATERIAL, WRAP ALL JOINTS WITH ENGINEERING FABRIC.
		2. FOR PIPES INSTALLED AT BACK OF CURB, BACKFILL WITH GRANULAR BEDDING AND BACKFILL MATERIAL TO BOTTOM OF SUBBASE MATERIAL.
		3. FOR ALL OTHER STORM SEWER PIPES BACKFILL WITH GRANULAR BEDDING AND BACKFILL MATERIAL TO A MINIMUM OF 0.5' FROM THE TOP OF PIPE.
		4. UTILIZE RUBBER O-RING OR PROFILE GASKET COMPLYING WITH ASTM C 443 AT WATER MAIN CROSSING LOCATIONS.
		5. CONNECTIONS TO EXISTING PIPE/ STRUCTURES INCIDENTAL TO THIS ITEM.
1-A-8	4030-B	APRON, PCC, 12"
1-A-9	4040-A	SUBDRAIN, IADOT DR-303 TYPE 8A INSTALLATION, PVC, 6"
		INSTALL SUBDRAIN 2 FEET BELOW PAVEMENT SURFACE
1-A-10	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, PVC, 6"
		REFER TO SUDAS DETAIL 4040.232
1-A-11	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, PVC, 6"
		1. REFER TO SUDAS DETAIL 4040.233
		2. SUBDRAIN OUTLETS TO DITCH SHALL BE CORRUGATED METAL PIPE (CMP)
1-A-12	6010-E	INTAKE ADJUSTMENT, MINOR

PlotDrvr: pdf_bw_no_level.pltcfg
Model: C.01

PenTbl: hrg.tbl
Last Saved: 12/6/2021

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 1:38:25 PM hmanter
CAD FILE: ...\Sheets\SHT_40100100_C01.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

ESTIMATE OF QUANTITIES
AND GENERAL INFORMATION

SHEET NO.
C.01

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1-A-13	7020-B	PAVEMENT, HMA, 8"
		1. REFER TO SUDAS DETAIL 4040.233
		2. INCLUDES QUANTITIY FOR ASPHALT DRIVEWAY RECONSTRUCTION AT 2309 11TH STREET
1-A-14	7020-I	HMA PAVEMENT SAMPLES AND TESTING
1-A-15	7030-A	REMOVAL OF DRIVEWAY, HMA
1-A-16	7040-A	FULL DEPTH PATCHES, PCC
		1. TO BE PLACED AS NEEDED WHERE NEW PAVING TIES INTO EXISTING PCC.
		2. REFER TO SUDAS STANDARD DETAIL 7040.101
1-A-17	7040-X	GRANULAR SURFACING
		INCLUDES QUANTITY FOR GRANULAR DRIVEWAYS, ROADWAY PATCHING, AND TEMPORARY GRANULAR SURFACING
1-A-18	8030-A	TEMPORARY TRAFFIC CONTROL
		1. THIS ITEM WILL NOT BE MEASURED. ITEM WILL BE PAID PER LUMP SUM. CONTRACTOR TO NOTIFY CITY
		48 HOURS BEFORE ANY CHANGES IN TRAFFIC CONTROL.
		2. SAFETY CLOSURES INCIDENTAL TO THIS ITEM.
1-A-19	9010-A	SEEDING
		UTILIZE RURAL SEEDING MIX
1-A-20	9040-N-1	SILT FENCE
1-A-21	9040-N-3	REMOVAL OF SILT FENCE
1-A-22	11020-A	MOBILIZATION
		THIS ITEM WILL NOT BE MEASURED. THIS ITEM WILL BE PAID PER LUMP SUM.
Lincoln Highway		
1-B-1	7020-I	HMA PAVEMENT SAMPLES AND TESTING
1-B-2	7020-X	SHOULDER RESTORATION
1-B-3	7021-B-0	HMA OVERLAY, 3"
1-B-4	7040-G	MILLING
		REFER TO B SHEETS FOR TYPICAL CROSS SECTION INFORMATION.
1-B-5	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE
1-B-6	8020-G	PAINTED SYMBOLS AND LEGENDS, DURABLE
		REPLACE ALL PAVEMENT MARKINGS AND SYMBOLS IN THEIR EXISTING LOCATIONS.
1-B-7	8020-M	GROOVES CUT FOR PAVEMENT MARKINGS
1-B-8	8020-N	GROOVES CUT FOR SYMBOLS AND LEGENDS
1-B-9	8030-A	TEMPORARY TRAFFIC CONTROL
		1. THIS ITEM WILL NOT BE MEASURED. ITEM WILL BE PAID PER LUMP SUM. CONTRACTOR TO NOTIFY CITY
		48 HOURS BEFORE ANY CHANGES IN TRAFFIC CONTROL.
		2. SAFETY CLOSURES INCIDENTAL TO THIS ITEM.
		3. THIS ITEM INCLUDES ANY TEMPORARY PAVEMENT MARKINGS.
1-B-10	11020-A	MOBILIZATION
		THIS ITEM WILL NOT BE MEASURED. THIS ITEM WILL BE PAID PER LUMP SUM.
DIVISION 2		
S-14 (PCC)		
2-A-1	2010-D-3	TOPSOIL OFF-SITE
		1. USE TOPSOIL MEETING REQUIREMENTS OF SUDAS, SECTION 2010, 2.01, C.
		2. TESTING OF TOPSOIL REQUIRED TO ENSURE REQUIREMENTS ARE MET
2-A-2	2010-E	EXCAVATION, CLASS 13
		INCLUDES REMOVAL OF GRANULAR AREAS.
2-A-3	2010-G	SUBGRADE PREPARATION
		COMPACT ACCORDING TO SUDAS, SECTION 2010, 3.06, C.
2-A-4	2010-H	SUBGRADE TREATMENT, GEOGRID
2-A-5	2010-I	SUBBASE, MODIFIED 4"
2-A-6	4020-A-1	STORM SEWER, TRENCHED, RCP, 15"
2-A-7	4020-A-1	STORM SEWER, TRENCHED, RCP, 18"
2-A-8	4020-A-1	STORM SEWER, TRENCHED, RCP, 24"
		1. DO NOT USE JOINTING MATERIAL, WRAP ALL JOINTS WITH ENGINEERING FABRIC.
		2. FOR PIPES INSTALLED AT BACK OF CURB, BACKFILL WITH GRANULAR BEDDING AND BACKFILL MATERIAL TO BOTTOM OF SUBBASE MATERIAL.
		3. FOR ALL OTHER STORM SEWER PIPES BACKFILL WITH GRANULAR BEDDING AND BACKFILL MATERIAL TO A MINIMUM

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		OF 0.5' FROM THE TOP OF PIPE.
		4. UTILIZE RUBBER O-RING OR PROFILE GASKET COMPLYING WITH ASTM C 443 AT WATER MAIN CROSSING LOCATIONS.
		5. CONNECTIONS TO EXISTING PIPE/ STRUCTURES INCIDENTAL TO THIS ITEM.
2-A-9	4040-A	SUBDRAIN, TYPE 1, PVC, 6"
		1. REFER TO SUDAS DETAIL 4040.231
		2. THE SUBDRAIN SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ROADWAY PAVEMENT.
2-A-10	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, PVC, 6"
		REFER TO SUDAS DETAIL 4040.232
2-A-11	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, PVC, 6"
		REFER TO SUDAS DETAIL 4040.233
2-A-12	6010-A	STORM SEWER MANHOLE, SW-401, 48"
		1. REFER TO C SHEETS FOR STORM SEWER TABULATION.
		2. REFER TO M SHEETS FOR LOCATION OF MANHOLES.
		3. USE 3 PIECE CASTING ON ALL MANHOLES IN PAVEMENT SECTIONS.
2-A-13	6010-B	STORM SEWER INTAKE, SW-507
2-A-14	6010-B	STORM SEWER INTAKE, SW-512, 24"
2-A-15	6010-E	MANHOLE ADJUSTEMENT, MINOR
		ADJUSTMENT FOR EXISTING SANITARY MANHOLE LOCATED AT 204+75.90; 14.34' LT
2-A-16	7010-A	PAVEMENT, PCC, 9"
2-A-17	7010-I	PCC PAVEMENT SAMPLES AND TESTING
2-A-18	7030-A	REMOVAL OF DRIVEWAY, PCC
2-A-19	7030-H-1	DRIVEWAY, PAVED, PCC, 6"
2-A-20	7030-H-1	DRIVEWAY, PAVED, HMA, 6"
2-A-21	7040-H	PAVEMENT REMOVAL
2-A-22	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE
		LOCATIONS AS SHOWN ON K SHEETS
2-A-23	8020-M	GROOVES CUT FOR PAVEMENT MARKINGS
2-A-24	8030-A	TEMPORARY TRAFFIC CONTROL
		1. THIS ITEM WILL NOT BE MEASURED. ITEM WILL BE PAID PER LUMP SUM. CONTRACTOR TO NOTIFY CITY
		48 HOURS BEFORE ANY CHANGES IN TRAFFIC CONTROL.
		2. SAFETY CLOSURES INCIDENTAL TO THIS ITEM.
2-A-25	9020-A	SODDING
2-A-26	9040-N-1	SILT FENCE
2-A-27	9040-N-3	REMOVAL OF SILT FENCE
2-A-28	11020-A	MOBILIZATION
		THIS ITEM WILL NOT BE MEASURED. THIS ITEM WILL BE PAID PER LUMP SUM.
S-14 (Asphalt)		
2-B-1	2010-D-3	TOPSOIL OFF-SITE
		1. USE TOPSOIL MEETING REQUIREMENTS OF SUDAS, SECTION 2010, 2.01, C.
		2. TESTING OF TOPSOIL REQUIRED TO ENSURE REQUIREMENTS ARE MET
2-B-2	2010-E	EXCAVATION, CLASS 13
		INCLUDES REMOVAL OF GRANULAR AREAS.
2-B-3	2010-G	SUBGRADE PREPARATION
		COMPACT ACCORDING TO SUDAS, SECTION 2010, 3.06, C.
2-B-4	2010-H	SUBGRADE TREATMENT, GEOGRID
2-B-5	2010-I	SUBBASE, MODIFIED 4"
2-B-6	4020-A-1	STORM SEWER, TRENCHED, RCP, 15"
2-B-7	4020-A-1	STORM SEWER, TRENCHED, RCP, 18"
2-B-8	4020-A-1	STORM SEWER, TRENCHED, RCP, 24"
		1. DO NOT USE JOINTING MATERIAL, WRAP ALL JOINTS WITH ENGINEERING FABRIC.
		2. FOR PIPES INSTALLED AT BACK OF CURB, BACKFILL WITH GRANULAR BEDDING AND BACKFILL MATERIAL TO BOTTOM OF SUBBASE MATERIAL.
		3. FOR ALL OTHER STORM SEWER PIPES BACKFILL WITH GRANULAR BEDDING AND BACKFILL MATERIAL TO A MINIMUM
		OF 0.5' FROM THE TOP OF PIPE.
		4. UTILIZE RUBBER O-RING OR PROFILE GASKET COMPLYING WITH ASTM C 443 AT WATER MAIN CROSSING LOCATIONS.
		5. CONNECTIONS TO EXISTING PIPE/ STRUCTURES INCIDENTAL TO THIS ITEM.
2-B-9	4040-A	SUBDRAIN, TYPE 1, PVC, 6"

PlotDrvr: pdf_bw_no_level.pltcfg
Model: C.02
PenTbl: hrg.tbl
Last Saved: 12/6/2021

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 1:38:35 PM hmanter
CAD FILE: ...\Sheets\SHT_40100100_C01.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
HRGreen.com

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

ESTIMATE OF QUANTITIES
AND GENERAL INFORMATION

SHEET NO.
C.02

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		REFER TO SUDAS DETAIL 4040.231
2-B-10	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, PVC, 6"
		REFER TO SUDAS DETAIL 4040.232
2-B-11	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, PVC, 6"
		REFER TO SUDAS DETAIL 4040.233
2-B-12	6010-A	STORM SEWER MANHOLE, SW-401, 48"
		1. REFER TO C SHEETS FOR STORM SEWER TABULATION.
		2. REFER TO M SHEETS FOR LOCATION OF MANHOLES.
		3. USE 3 PIECE CASTING ON ALL MANHOLES IN PAVEMENT SECTIONS.
2-B-13	6010-B	STORM SEWER INTAKE, SW-507
2-B-14	6010-B	STORM SEWER INTAKE, SW-512, 24"
2-B-15	6010-E	MANHOLE ADJUSTEMENT, MINOR
		ADJUSTMENT FOR EXISTING SANITARY MANHOLE LOCATED AT 204+75.90; 14.34' LT
2-B-16	7010-E	CURB AND GUTTER, 30"
2-B-17	7020-B	PAVEMENT, HMA, 10"
2-B-18	7020-I	HMA PAVEMENT SAMPLES AND TESTING
2-B-19	7030-A	REMOVAL OF DRIVEWAY, PCC
2-B-20	7030-H-1	DRIVEWAY, PAVED, PCC, 6"
2-B-21	7030-H-1	DRIVEWAY, PAVED, HMA, 6"
2-B-22	7040-H	PAVEMENT REMOVAL
2-B-23	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE
		LOCATIONS AS SHOWN ON K SHEETS
2-B-24	8020-M	GROOVES CUT FOR PAVEMENT MARKINGS
2-B-25	8030-A	TEMPORARY TRAFFIC CONTROL
		1. THIS ITEM WILL NOT BE MEASURED. ITEM WILL BE PAID PER LUMP SUM. CONTRACTOR TO NOTIFY CITY
		48 HOURS BEFORE ANY CHANGES IN TRAFFIC CONTROL.
		2. SAFETY CLOSURES INCIDENTAL TO THIS ITEM.
2-B-26	9020-A	SODDING
2-B-27	9040-N-1	SILT FENCE
2-B-28	9040-N-3	REMOVAL OF SILT FENCE
2-B-29	11020-A	MOBILIZATION
		THIS ITEM WILL NOT BE MEASURED. THIS ITEM WILL BE PAID PER LUMP SUM.

TRAFFIC CONTROL NOTES

Construction activity will disrupt traffic on North 11th StreeT, Lincoln Highway and S-14, as well as the surrounding roads. Portions of these roadways will be closed to traffic during construction.

Should the Contractor desire to deviate from the original plan, a written alternative plan shall be submitted to the Project Engineer for approval. Alternative plan shall be submitted to the Project Engineer for approval a minimum of two (2) weeks prior to the proposed changes.

Project Access/Maintenance of Haul Roads:
The Contractor is responsible for dust control and maintenance of haul routes. Do not drive on the proposed pavement with construction traffic greater than the legal load limits.

Utilities:
The Contractor shall work with each utility company to resolve each known and unknown conflicts and incorporate them into the overall construction schedule. Refer to Sheet A.3 for utility contact information.

North 11th Street: (Refer to sheet J.01 for traffic control layout)
1. Provide adequate signage per SUDAS 8030.116 while the W Avenue and North 11th Street interseciton is closed.
2. Do not block the intersection at U Avenue and North 11th Street as this will be the only entrance/ exit into the subdivision just west of the project area while the W Avenue intersection is under construction.
3. Detour traffic to the east along 640th Avenue between T Avenue and 210th Street while North 11th Street is closed to through traffic. Use adequate detour signage per SUDAS 8030.116 and MUTCD Standards. See detour sheet J.04

Lincoln Highway: (Refer to sheet J.02 for traffic control layout)
1. Lincoln Highway is the only access point to the subdivision south of the project area. Access to the Osage Drive and Lincoln Highway intersection must be maintained at all times. Only close one lane of Lincoln Highway to the east of Osage Drive at a time per SUDAS 8030.106. Utilize a pilot car as needed. Lane closures only during daylight hours.
2. Detour traffic to the south along US-30 from Airport Road to S-14. Use adequate detour signage per SUDAS 8030.116 and MUTCD standards. See detour sheet J.05
3. Do not disturb the Union Pacific Railroad underpass.

S-14: (Refer to sheet J.03 for traffic control layout)
1. N Avenue is the only access point to the subdivision west of the project area. One lane through the N Avenue intersection must remain open at all times during construction. Provide adequate signage along N Avenue while the intersection is under construction per SUDAS 8030.116.
2. Do not disturb the Union Pacific Railroad overpass. Immediately contact Union Pacific Railroad (Clifford Cessna: 209-429-7279) and the engineer should a conflict arise.
3. Detour traffic to the east along 2nd Street/ Q Ave/ 1st Street between T Ave and Lincoln Highway while S-14 is closed to through traffic. Use adequate detour signage per SUDAS 8030.116 and MUTCD standards. See detour sheet J.06

PlotDrvr: pdf_bw_no_level.pltcfg
Model: C.03

PenTbl: hrg.tbl
Last Saved: 12/6/2021

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 1:38:45 PM hmanter
CAD FILE: ...\Sheets\SHT_40100100_C01.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

ESTIMATE OF QUANTITIES
AND GENERAL INFORMATION

SHEET NO.
C.03

104-5B
06-06-17

STORM SEWER - N 11TH STREET

* Bid Item

INTAKES AND UTILITY ACCESSES						PIPES												
						Design Length, Slope and Flowlines are calculated center of structure to center of structure along CL of pipe.												
No.	Location Station	Type or Standard Road Plan*	RIM / FG Elev.	Bottom Well Elev.	Notes	Line Number	Intake/Utility Access No. From	Intake/Utility Access No. To	Class	Pipe Diameter Inches	Bid Length* Feet	Design Length Feet	Slope %	Flow Lines Inlet Elevation	Flow Lines Outlet Elevation	Granular Backfill CY	Pipe Plan Sheet No.	Notes
101	105+53.46, 18.03' LT	APRON, PCC, 12	N/A	N/A	OUTLET = 999.45	P-101	103	101	III	12	40	38.21	1.96%	1000.20	999.45	0	M.03	
102	105+53.46, 20.17' RT	APRON, PCC, 12	N/A	N/A	OUTLET = 1000.20													
A-1	106+49.12, 17.36' RT		1001.81	0.00	ADJUST CASTING TO NEW GROUND ELEVATION (APPROX. 0.67')													
A-2	106+49.29, 19.85' LT		1001.58		ADJUST CASTING TO NEW GROUND ELEVATION (APPROX. 0.40')													
						PIPE LENGTH TOTALS (LF):				12" RCP:	40							

NOTES:

104-5B
06-06-17

STORM SEWER - S-14

* Bid Item

INTAKES AND UTILITY ACCESSES						PIPES												
						Design Length, Slope and Flowlines are calculated center of structure to center of structure along CL of pipe.												
No.	Location Station	Type or Standard Road Plan*	RIM / FG Elev.	Bottom Well Elev.	Notes	Line Number	Intake/Utility Access No. From	Intake/Utility Access No. To	Class	Pipe Diameter Inches	Bid Length* Feet	Design Length Feet	Slope %	Flow Lines Inlet Elevation	Flow Lines Outlet Elevation	Granular Backfill CY	Pipe Plan Sheet No.	Notes
200	209+71.00; 19.86 LT	SW-512, 24"	979.41	975.42		P-200	200	202	III	18	24	22.25	2.74%	975.92	975.31		M.02	
201	209+71.00; 20.68 RT	SW-512, 24"	979.91	975.55		P-201	201	202	III	15	24	22.95	3.22%	976.05	975.31		M.02	
202	209+60.98; 0.00 RT	SW-401, 48"	980.41	974.06		P-202	202	204	III	24	136	128.96	0.61%	974.56	973.77		M.02	
203	208+32.27; 14.32 RT	SW-507	978.36	974.30		P-203	203	204	III	15	16	16.00	1.37%	974.80	974.58		M.02	
204	208+32.02; 0.00 RT	SW-401, 48"	978.63	973.17		P-204	204	205	III	24	16	16.00	0.56%	973.67	973.58		M.02	
205	208+31.80; 14.37 LT	SW-507	978.36	972.98		P-205	205	207	III	24	304	298.11	0.64%	973.48	971.56		M.02	
206	205+33.74; 15.50 RT	SW-507	977.28	973.30		P-206	206	207	III	15	40	34.00	0.91%	973.80	973.49		M.02	
207	205+33.80; 15.50 LT	SW-507	977.28	970.96		P-207	207	211	III	24	104	102.46	0.61%	971.46	970.84		M.01-.02	
208	200+81.72; 18.99 RT	SW-507	987.71	983.90		P-208	208	209	III	15	40	37.34	0.29%	984.40	984.29		M.01	
209	200+81.37; 15.50 LT	SW-507	988.03	981.17		P-209	209	211	III	15	352	348.40	2.75%	981.67	972.09		M.01	
210	204+31.12; 15.50 RT	SW-507	976.93	972.72		P-210	210	211	III	15	40	34.00	3.29%	973.22	972.10		M.01	
211	204+31.35; 15.50 LT	SW-507	976.93	967.10		P-211	212	211	III	24	24	21.58	1.99%	967.60	967.17		M.01	
EX-212	201+46.06; 32.78 LT	SW-402			EXISTING STRUCTURE													
						PIPE LENGTH TOTALS (LF):				15" RCP:	512							
										18" RCP:	24							
										24" RCP:	584							

PlotDrvr: pdf_bw_no_level.pltcfg
Model: C.04

PenTbl: hrg.tbl
Last Saved: 12/6/2021

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 1:38:51 PM hmanter
CAD FILE: ...\Sheets\SHT_40100100_C01.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen HRGreen.com

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

ESTIMATE OF QUANTITIES
AND GENERAL INFORMATION

SHEET NO.
C.04

108-22
04-16-13

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.25
ELY4: Edge Line Left (Yellow) @ 1.00
DLW4: Dotted Line (White) @ 0.33
DCY4: Double Centerline (Yellow) @ 2.00
SLW4: Solid Lane Line (White) @ 1.00
NPY4: No Passing Zone Line (Yellow) @ 1.25
CLW6: Crosswalk Line (White) @ 3.00
BLW4: Broken Lane Line (White) @ 0.25
SLW2: Stop Line (White) @ 6.00
ELW4: Edge Line Right (White) @ 1.00
CHY8: Channelizing Line (Yellow) @ 2.00

Location								Length by Line Type (Unfactored)															Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4	SLW4	CLW6	SLW2	CHY8	DLW4					
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
DIVISION 1																							
LINCOLN HWY			E/W	Durable Paint		X			6.50														
LINCOLN HWY			W	Durable Paint	X							8.50											
LINCOLN HWY			E	Durable Paint			X					7.90											
LINCOLN HWY			E/W	Durable Paint		X											13.30						
LINCOLN HWY			E	Durable Paint			X					3.70		5.80				1.70					
LINCOLN HWY			W	Durable Paint	X							9.80											
LINCOLN HWY			W	Durable Paint	X									1.50									
LINCOLN HWY			E/W	Durable Paint		X											16.00						
LINCOLN HWY			E	Durable Paint			X					6.90											
DIVISION 2																							
S-14	201+45.35	204+37.59	N/S	Durable Paint		X			2.90														
S-14	205+15.71	209+78.96	N/S	Durable Paint		X			4.60														
								DIVISION 1 TOTAL:			81.60												
								DIVISION 2 TOTAL:			7.50												

108-29
04-21-15

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Road Identification	Location		STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	FERW	LLRW	RLRW	RRCW	BLSW	WCSW	WPSB	SCLW (SCHOOL)	XNGW (XING)	STPW (STOP)	AHDW (AHEAD)	ONLW (ONLY)	BIKW (BIKE)	LANW (LANE)	XITW (EXIT)	Groove Cuts EACH	Remarks
	Station	Side																								
DIVISION 1																										
LINCOLN HWY				1																						
LINCOLN HWY																					1					
LINCOLN HWY				1																						
LINCOLN HWY					1																					
LINCOLN HWY														1												
LINCOLN HWY			1																							
LINCOLN HWY																					1					
LINCOLN HWY					1																					
					TOTAL DURABLE:	8																				

DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021 1:38:59 PM	hmanter		
CAD FILE: ...\Sheets\SHT_40100100_C01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2022

ESTIMATE OF QUANTITIES AND GENERAL INFORMATION

SHEET NO. C.05

PenTbl: hrg.tbl
Last Saved: 12/6/2021
PlotDrvr: pdf_bw_no_level.pltcfg
Model: C.05

HRG-11
MODIFIED

LIST OF SUBDRAIN WORK

Possible Standards: DR-121, DR-201, DR-203, DR-301, DR-302, DR-303, DR-305 and DR-306. Possible Detail: 500-10.

* Not a bid item

Location				Pipe			Cleanout		Outlets				Remarks
No.	Station; Offset to Station; Offset		Type of Installation	Concrete, C.M.P., or Plastic	Dia.	Length	6"	8"	No.	Type	From Structure	To Structure	
			DR-301, DR-302, DR-303		IN	LF	No.	No.					
DIVISION 1													
1	100+06.40, 13' LT	102+38.35, 13' LT	DR-303, Type 8A	Plastic, Solid	6.0	546	1		1.0	DR-303	DITCH OUTLET	CLEANOUT	
2	102+38.35, 13' LT	105+48.46, 13' LT	DR-303, Type 8A	Plastic, Solid	6.0	321			1.0	DR-303	CLEANOUT	DITCH OUTLET	SHARE CLEANOUT WITH SUBDRAIN #1
3	100+03.52, 13' RT	102+38.35, 13' RT	DR-303, Type 8A	Plastic, Solid	6.0	235	1		1.0	DR-303	DITCH OUTLET	CLEANOUT	
4	102+38.35, 13' RT	105+48.46, 13' RT	DR-303, Type 8A	Plastic, Solid	6.0	349			1.0	DR-303	CLEANOUT	DITCH OUTLET	SHARE CLEANOUT WITH SUBDRAIN #3
5	105+58.66, 13' LT	108+17.97, 13' LT	DR-303, Type 8A	Plastic, Solid	6.0	270	1		1.0	DR-303	DITCH OUTLET	CLEANOUT	
6	105+58.66, 13' RT	108+91.88, 13' RT	DR-303, Type 8A	Plastic, Solid	6.0	373	1		1.0	DR-303	DITCH OUTLET	CLEANOUT	
				TOTALS									
				SUBDRAIN, PLASTIC PIPE, 6 IN DIA:		2094							
				SUBDRAIN CLEANOUT, TYPE A-1, 6 IN:		4							
				SUBDRAIN OUTLET:		6							
DIVISION 2													
1	201+50.37, 16.5' RT	204+31.12, 16.5' RT	TYPE 1	Plastic, Solid	6.0	278	1		1.0	TYPE 1	CLEANOUT	ST-210	
2	205+33.74, 16.5' RT	208+32.26, 16.5' RT	TYPE1	Plastic, Solid	6.0	293			2.0	TYPE 1	ST-206	ST-203	
				TOTALS									
				SUBDRAIN, PLASTIC PIPE, 6 IN DIA:		571							
				SUBDRAIN CLEANOUT, TYPE A-1, 6 IN:		1							
				SUBDRAIN OUTLET:		3							

PlotDrvr: pdf_bw_no_level.pltcfg
Model: C.06

PenTbl: hrg.tbl
Last Saved: 12/6/2021

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 1:39:06 PM hmanter
CAD FILE: ...\Sheets\SHT_40100100_C01.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

ESTIMATE OF QUANTITIES
AND GENERAL INFORMATION

SHEET NO.
C.06

R/W

① NEVADA ASSEMBLY OF GOD
1070 U AVE

U AVENUE

② DUIT, DEVIN & CYNTHIA
1067 U AVE

③ BARTON, JOSEPH
2117 10TH ST PL

④ LUETHJE, JOE
2125 10TH ST PL

⑥ STANLEY, ROBERT & JOAN
2133 10TH ST PL

⑦ OHM, LEE & NICOLE
2141 10TH ST PL

⑧ KRAUSE, DIANE
2205 10TH ST PL

LOBERG, ROBE
2211 10T

POT Sta 100+00.00

100 101 102 103 104

SUBDRAIN OUTLET TO DITCH

PROTECT POWER POLE

SUBDRAIN (Typ.)

PROTECT POWER POLE

NORTH 11TH ST

SUBDRAIN OUTLET TO DITCH

CLEANOUT (Typ.)

RESET POWER POLE (BY OTHERS)

⑤ KLATT, ARLENE

0 20
FEET

VPI +42.351
Elv 1,006.43
K = 80
Len 200.00 ft

EXISTING GROUND PROFILE

PROPOSED CENTERLINE PROFILE

BEGIN NEW PAVEMENT
STA. 100+00.00

1,003.52

1,002.66

+1.200%

+1.123%

+0.451%

-1.300%

-1.300%

PROPOSED EAST DITCH PROFILE

VPI +45.429
Elv 1,004.46
K = 80
Len 193.84 ft

1010 1006 1002 998 994 990 986 982 978

1,003.52 1,003.80 1,004.07 1,004.34 1,004.55 1,004.48 1,004.71 1,004.87 1,004.96 1,004.89 1,005.20 1,004.87 1,005.42 1,005.12 1,005.19 1,005.68 1,005.91 1,005.77 1,005.74 1,005.84 1,005.81 1,005.87 1,005.78 1,005.69 1,005.70 1,005.52 1,005.57 1,005.35 1,005.39 1,005.17 1,005.16 1,004.89 1,004.90 1,004.57 1,004.64 1,004.36 1,004.38 1,004.05 1,004.12 1,003.85

100 101 102 103 104

DRAWN BY: HCM	JOB DATE: 2022
APPROVED: LJS	JOB NUMBER: 201191
CAD DATE: 12/6/2021 1:42:54 PM	hmanter
CAD FILE: ...\Sheets\SHT_40100100_D01.dgn	

NO.	DATE	BY	REVISION DESCRIPTION

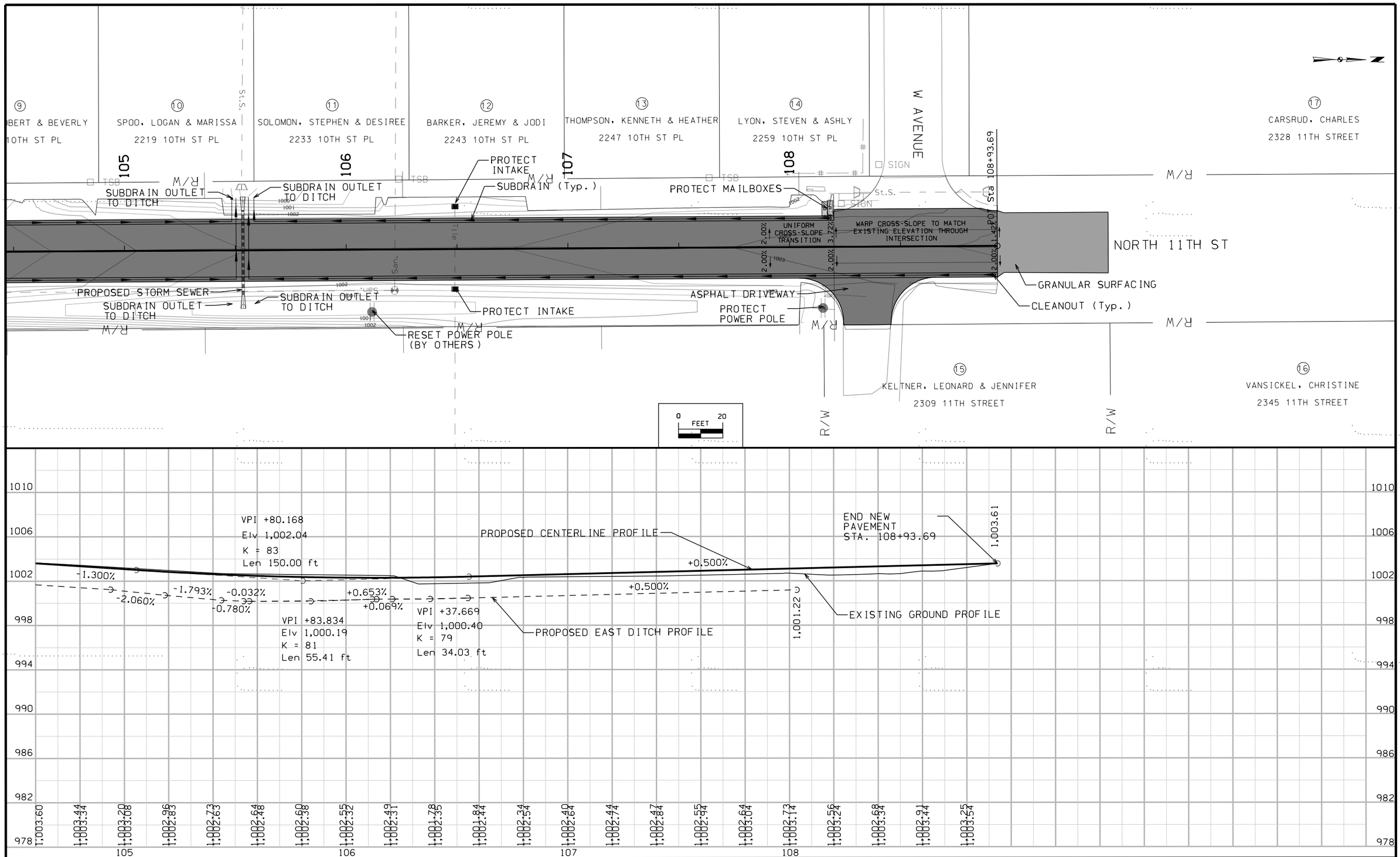
HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

11TH STREET
PLAN AND PROFILE

SHEET NO.
D.01



DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021 1:43:15 PM hmanter			
CAD FILE: ...\Sheets\SHT_40100100_D01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

11TH STREET
PLAN AND PROFILE

SHEET NO.
D.02

DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	1:43:34 PM hmanter		
CAD FILE: ...\Sheets\SHT_40100100_D01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

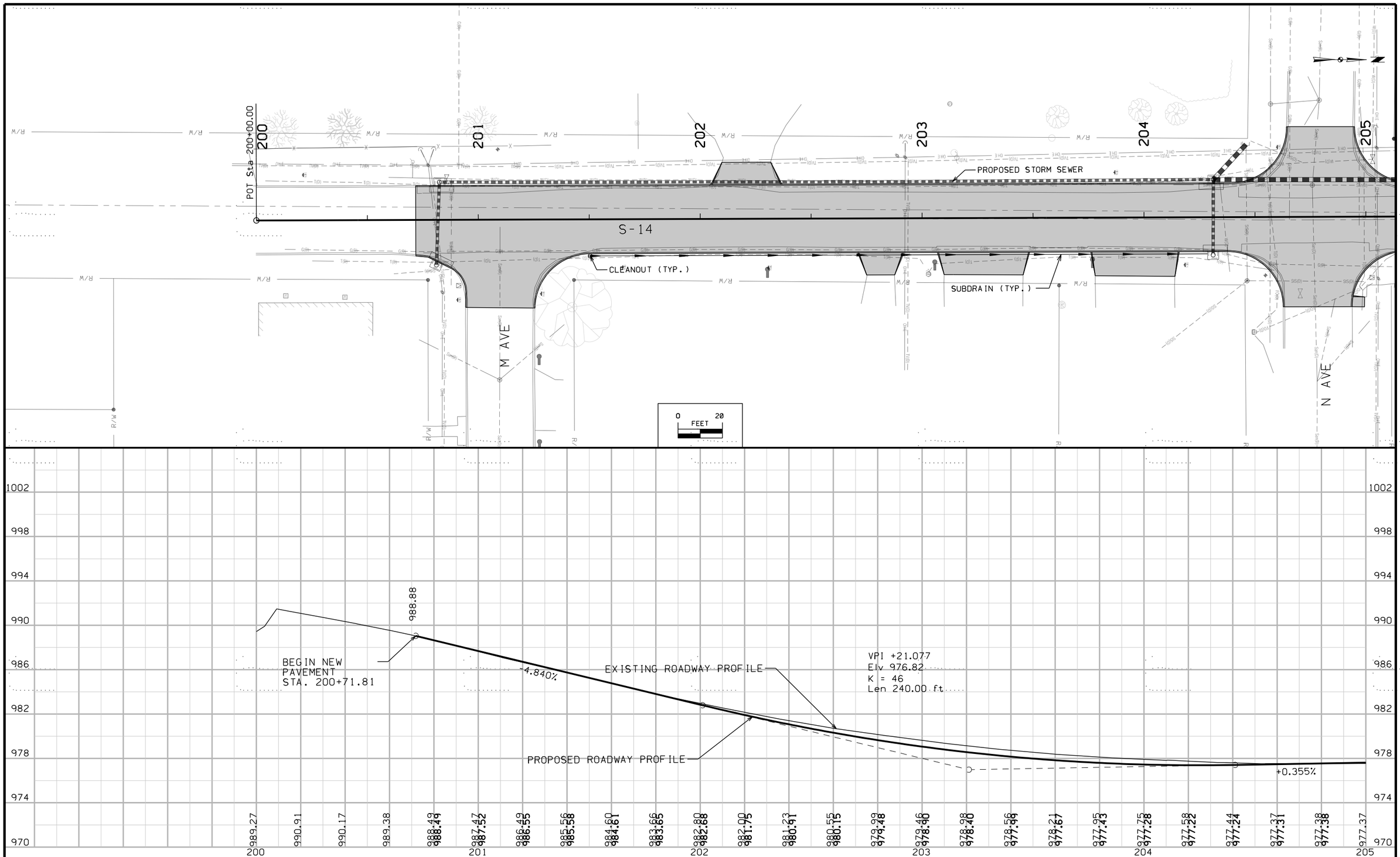
HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

LINCOLN HIGHWAY
PLAN VIEW

SHEET NO.
D.03



DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	1:45:06 PM	hmanter	
CAD FILE: ...\Sheets\SHT_40100100_D01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

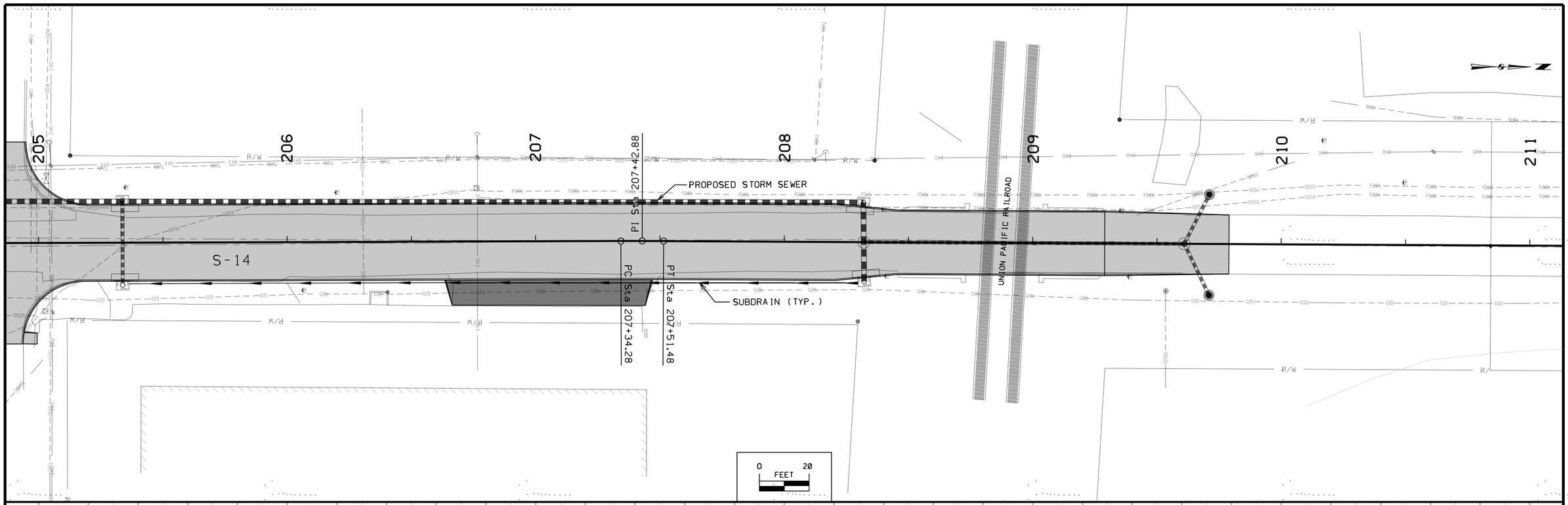
HRGreen.com
HRGreen

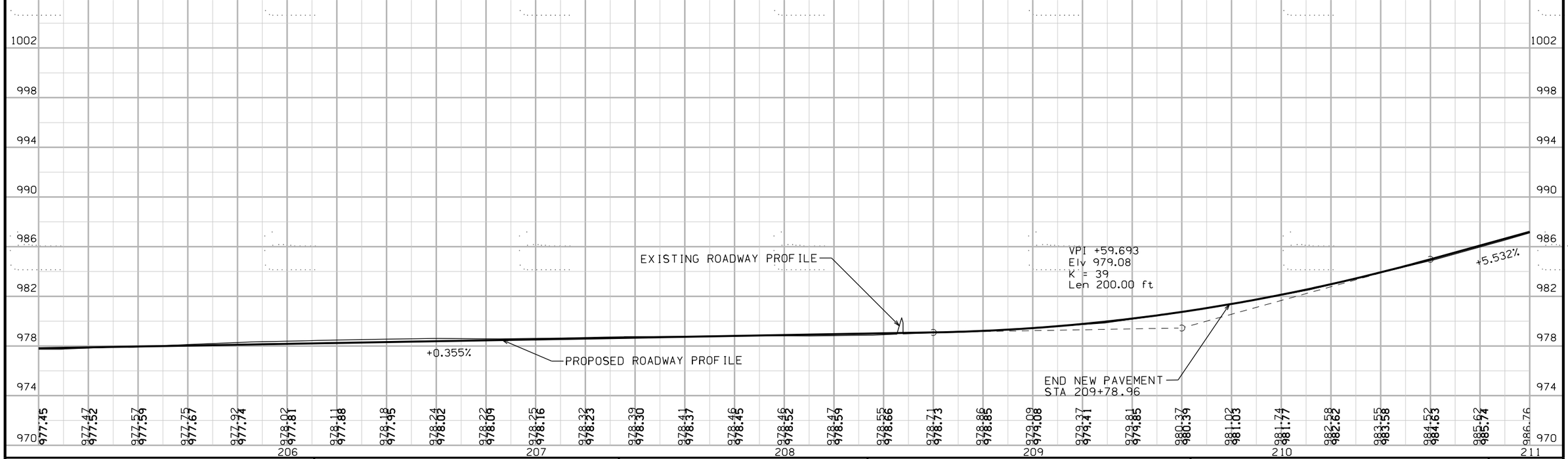
2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

S-14
PLAN AND PROFILE

SHEET NO.
D.04





DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	1:45:27 PM hmanter		
CAD FILE: ...\Sheets\SHT_40100100_D01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

S-14
PLAN AND PROFILE

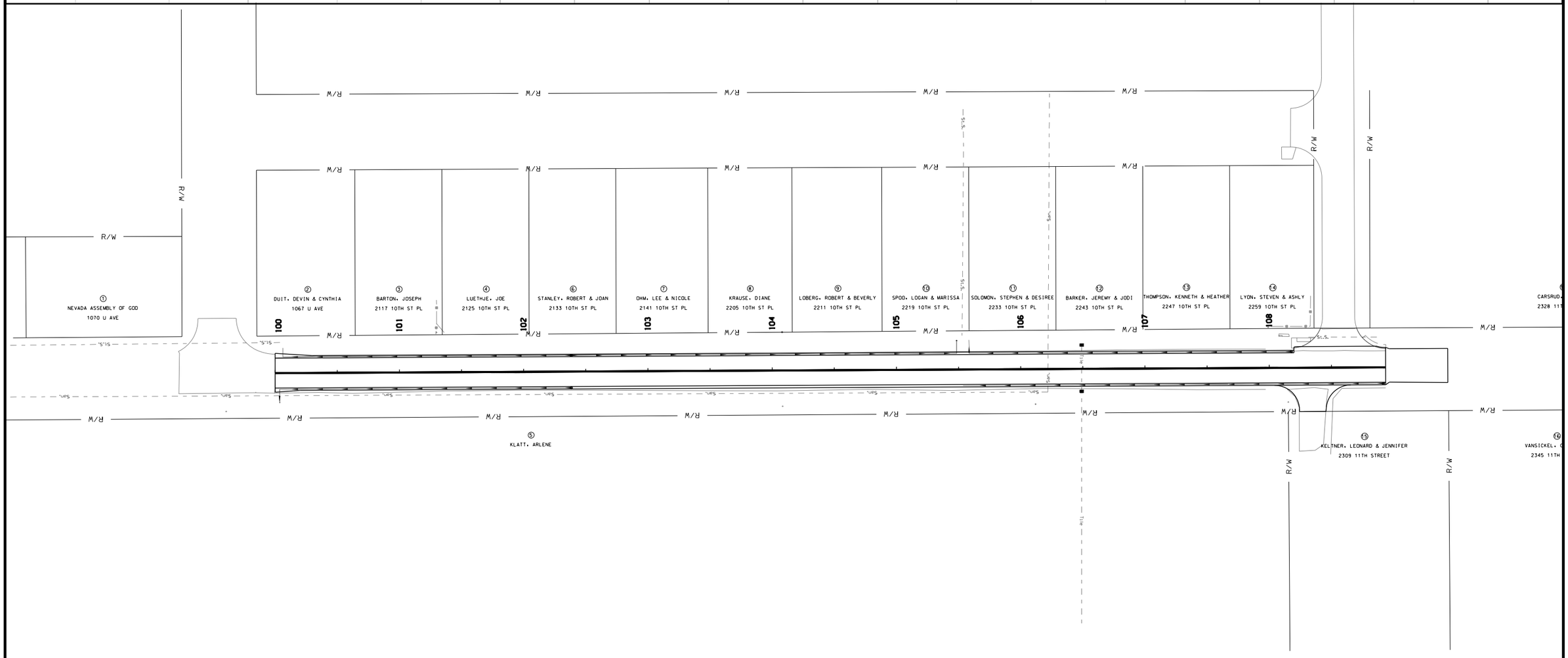
SHEET NO.
D.05

ALIGNMENT COORDINATES

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
ML001	NORTH 11TH ST	100+00.00	3474353.91	4936291.06															
ML001	NORTH 11TH ST	108+93.69	3475247.60	4936286.31															

VERTICAL/HORIZONTAL CONTROL:

NORTH 11 STREET SURVEY WAS COMPLETED USING THE IOWA REAL-TIME NETWORK (RTN), SO NO CONTROL POINT INFORMATION IS PROVIDED FOR THAT ROADWAY. USE THIS SAME NETWORK AS NEEDED FOR ANY ROADWAY STAKING ALONG NORTH 11TH STREET.



NORTH 11TH STREET

DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	8:35:13 AM hmanter		
CAD FILE: ...\Sheets\SHT_40100100_G01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

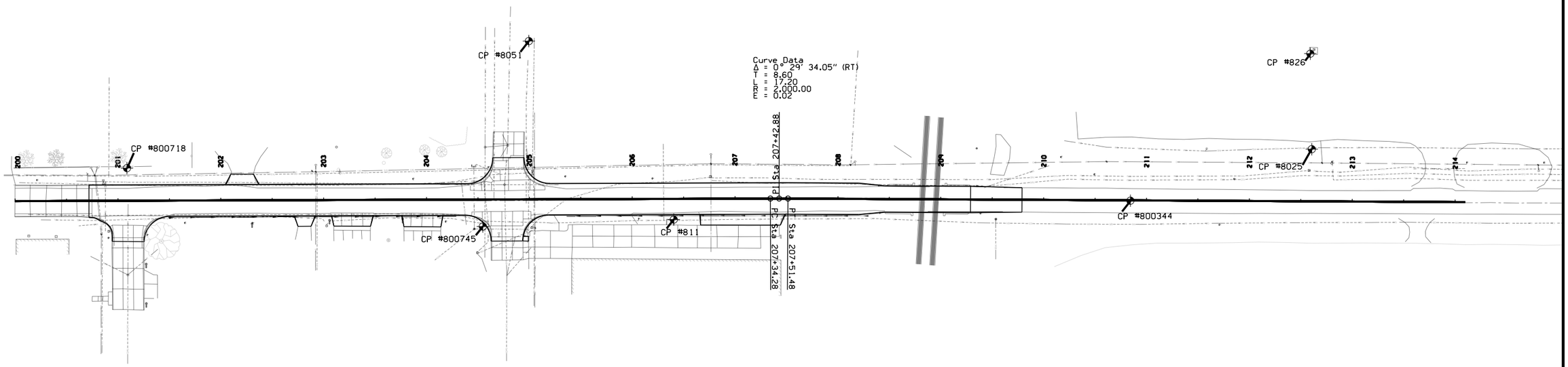
CITY OF NEVADA, IOWA 2022

REFERENCE TIES, BENCHMARKS AND HORIZONTAL CONTROL

SHEET NO.
G.01

ALIGNMENT COORDINATES

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
ML001	S-14	200+00.00	3471570.89	4931346.50															
ML002	S-14							207+34.28	3472305.16	4931344.01	207+42.88	3472313.76	4931343.98	207+51.48	3472322.36	4931344.03			
ML003	S-14	214+09.59	3472980.47	4931347.45															



DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	8:35:18 AM hmanter		
CAD FILE: ...\Sheets\SHT_40100100_G01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

REFERENCE TIES, BENCHMARKS AND HORIZONTAL CONTROL

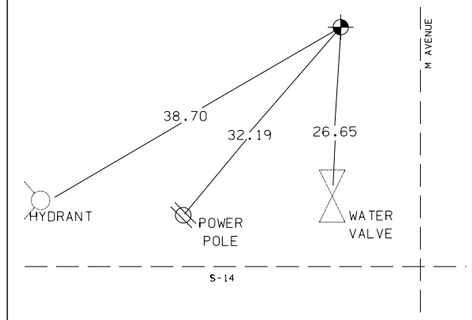
SHEET NO.
G.02

HORIZONTAL AND VERTICAL CONTROL

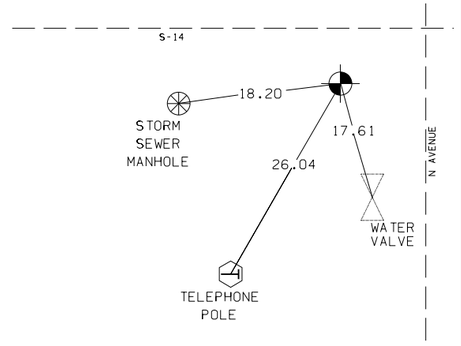
HORIZONTAL COORDINATE SYSTEM: NAD83 IOWA STATE PLANE NORTH
VERTICAL COORDINATE SYSTEM: NAVD88 DATUM

POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
800718	3471679.657	4931314.441	987.520	201+08.88	-31.692	60 D NAIL
800745	3472025.648	4931371.221	976.680	204+54.67	26.262	60 D NAIL
811	3472211.276	4931364.534	978.675	206+40.32	20.205	CUT X
8025	3472831.560	4931295.984	995.444	212+60.42	-50.692	1/2 REBAR
826	3472830.177	4931203.046	995.368	210+84.39	0.367	CUT X
800344	3472655.265	4931346.122	985.856	212+58.57	-143.628	MAG NAIL
8051	3472070.425	4931190.741	976.432	205+00.06	-154.065	CUT X
8055	347392.574	4931390.886	993.313	223+53.913	38.518	1/2 REBAR

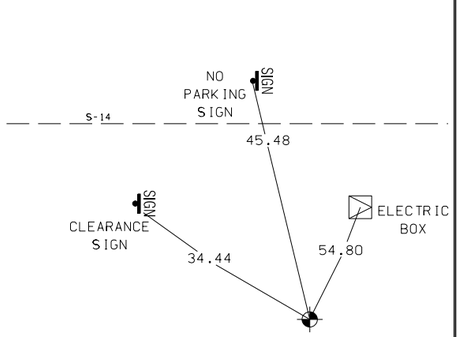
CONTROL POINT #800718
60 D NAIL



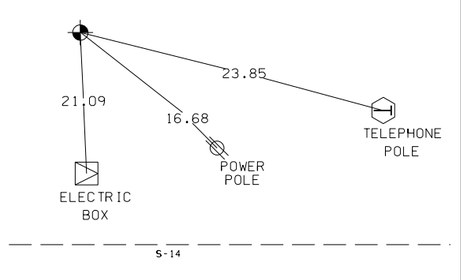
CONTROL POINT #800745
60 D NAIL



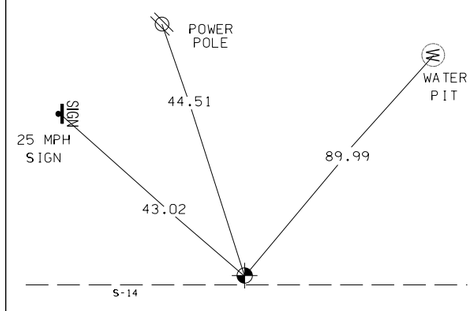
CONTROL POINT #811
CUT X



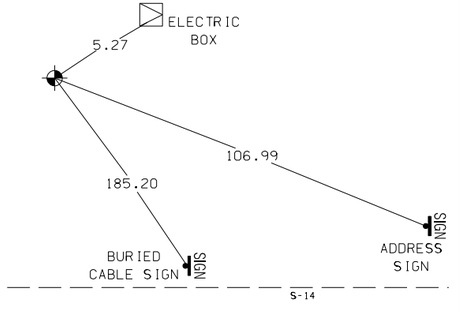
CONTROL POINT #8025
1/2 REBAR



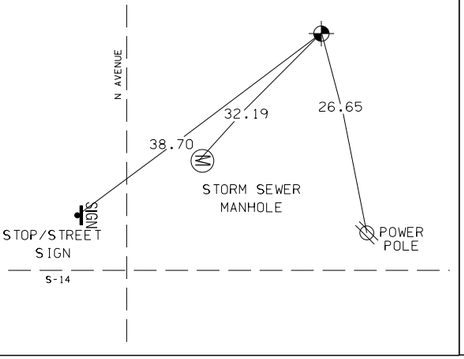
CONTROL POINT #800344
CUT X



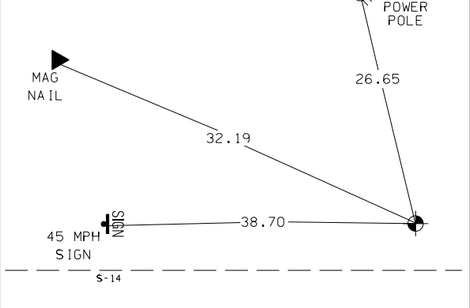
CONTROL POINT #826
MAG NAIL



CONTROL POINT #8051
CUT X



CONTROL POINT #8055
1/2 REBAR



DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 8:35:21 AM hmanter
CAD FILE: ...\Sheets\SHT_40100100_G01.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

REFERENCE TIES, BENCHMARKS AND HORIZONTAL CONTROL

SHEET NO.
G.03

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/6/2021 8:35:41 AM hmanter
CAD FILE: ...\Sheets\SHT_40100100_J01.dgn

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

11TH STREET
TRAFFIC CONTROL AND STAGING

SHEET NO.
J.01

DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021 8:36:24 AM hmanter			
CAD FILE: ...\Sheets\SHT_40100100_J01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

LINCOLN HWY
TRAFFIC CONTROL AND STAGING

SHEET NO.
J.02

DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	8:37:56 AM	hmanter	
CAD FILE: ...\Sheets\SHT_40100100_J01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

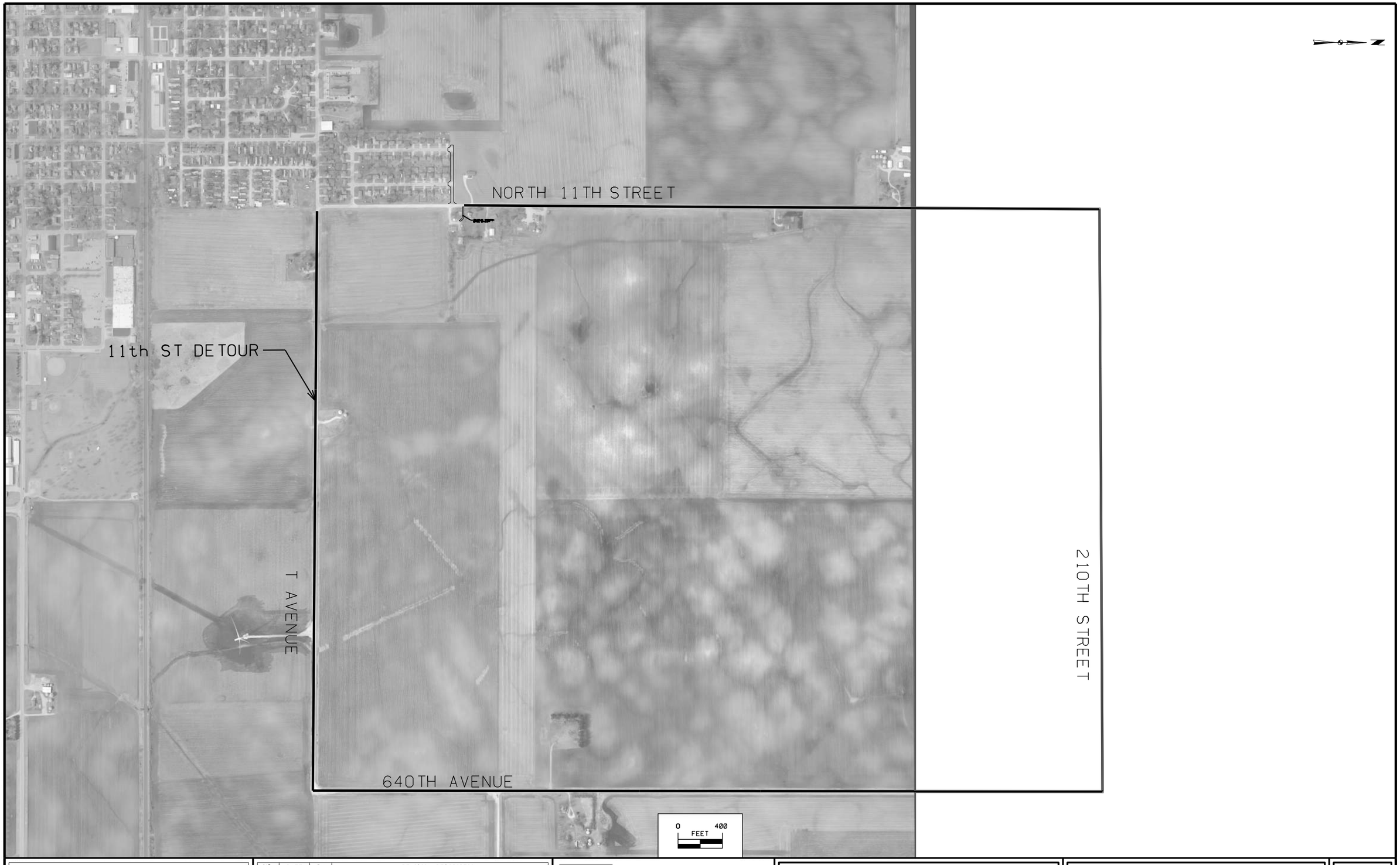
HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

S-14
TRAFFIC CONTROL AND STAGING

SHEET NO.
J.03



DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	8:38:40 AM hmanter		
CAD FILE: ...\Sheets\SHT_40100100_J01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

11TH DETOURS
TRAFFIC CONTROL AND STAGING

SHEET NO.
J.04

DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	8:40:18 AM hmanter		
CAD FILE: ...\Sheets\SHT_40100100_J01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

LINCOLN HWY DETOURS
TRAFFIC CONTROL AND STAGING

SHEET NO.
J.05

DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	8:42:53 AM hmanter		
CAD FILE: ...\Sheets\SHT_40100100_J01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

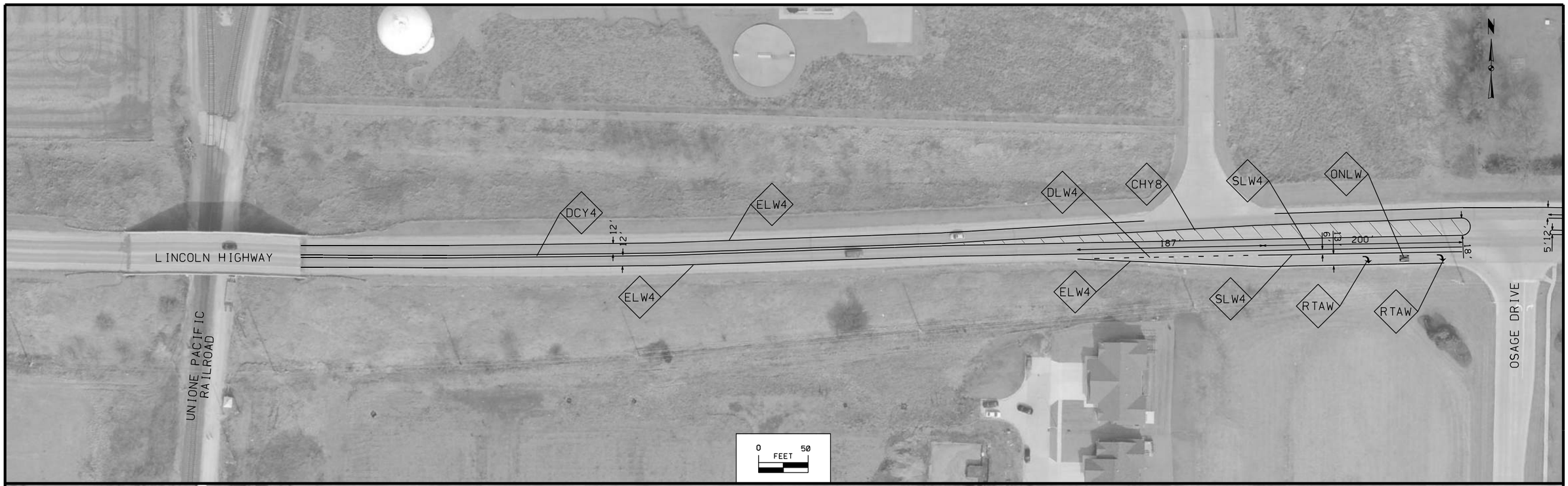
HRGreen.com
HRGreen

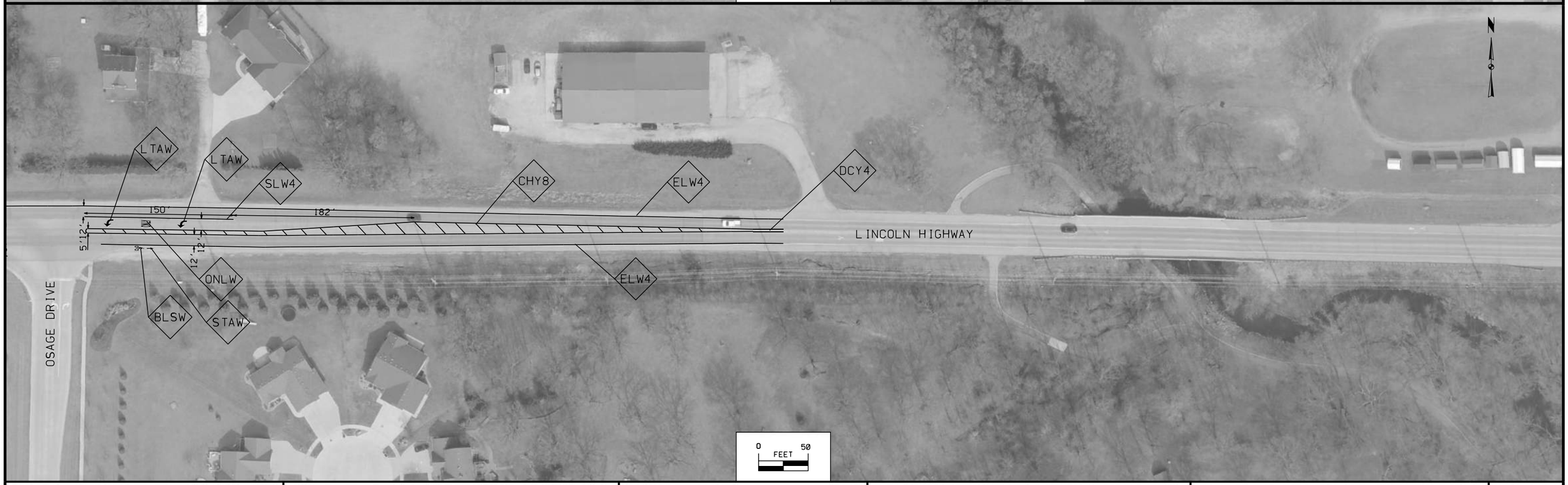
2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

S-14 DETOUR
TRAFFIC CONTROL AND STAGING

SHEET NO.
J.06





DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	8:46:06 AM	hmanter	
CAD FILE: ...\Sheets\SHT_40100100_K01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

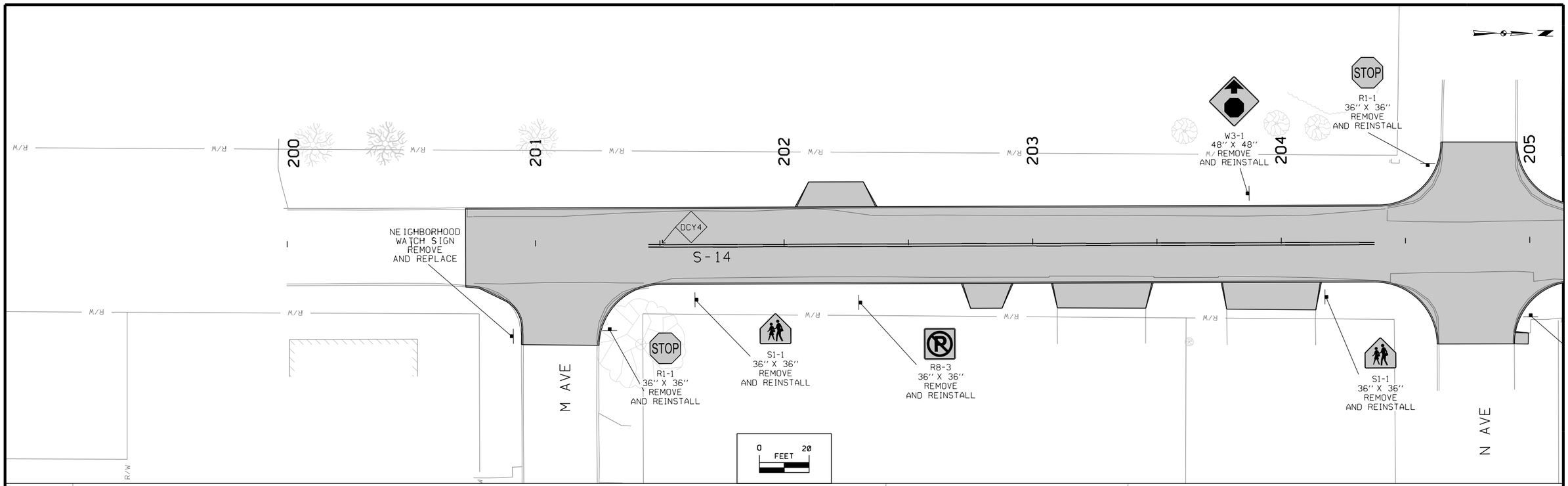
HRGreen.com
HRGreen

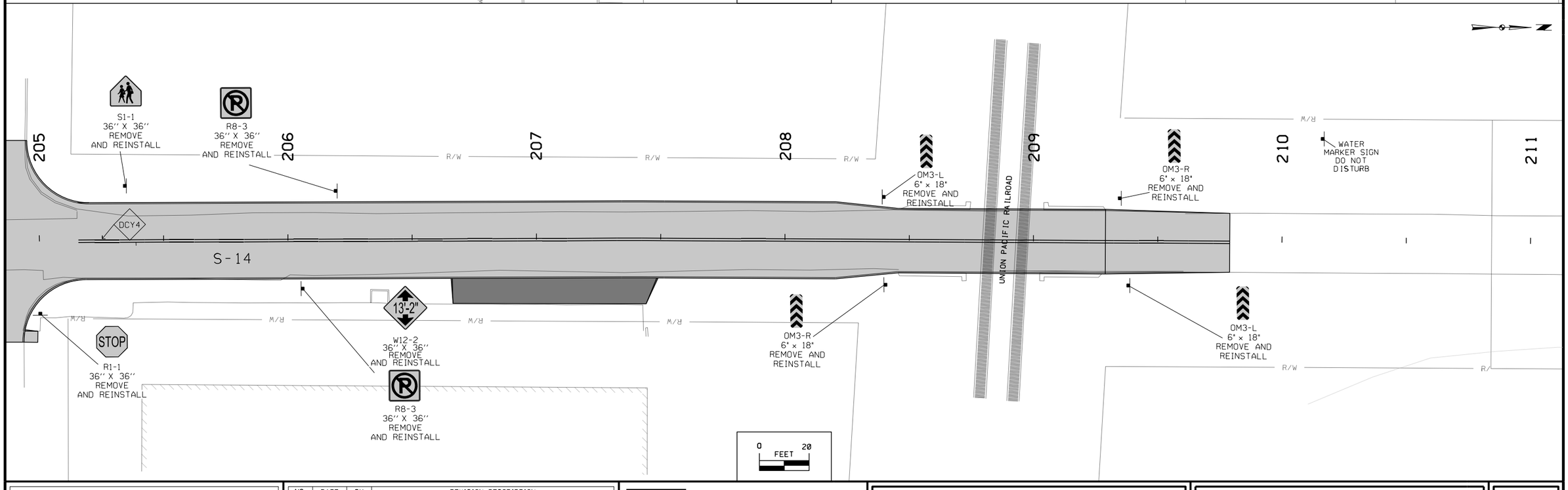
2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

LINCOLN HIGHWAY
PAVEMENT MARKINGS AND TRAFFIC SIGNING

SHEET NO.
K.01





DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021 8:46:59 AM	hmanter		
CAD FILE: ...\Sheets\SHT_40100100_K01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

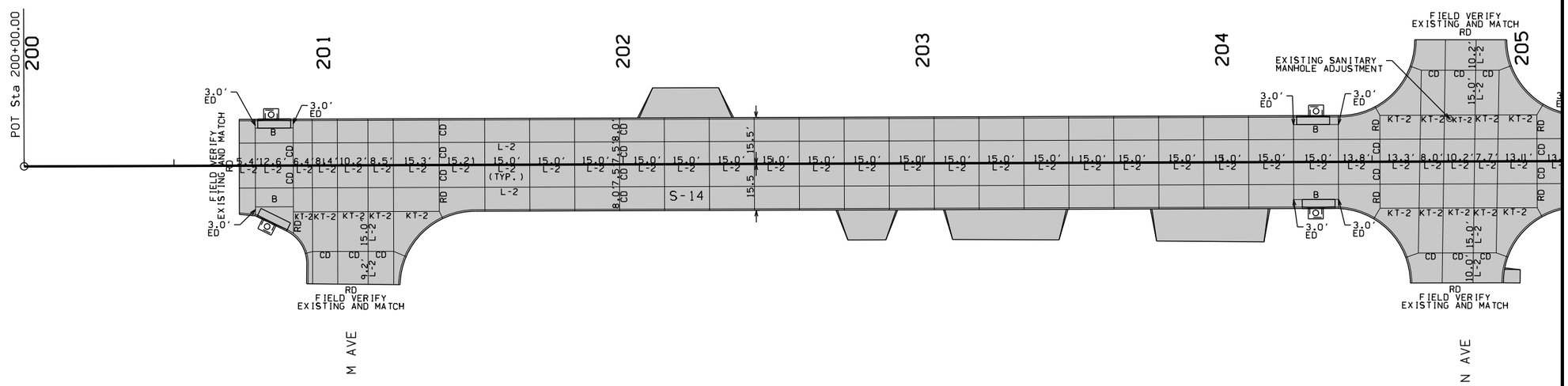
HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

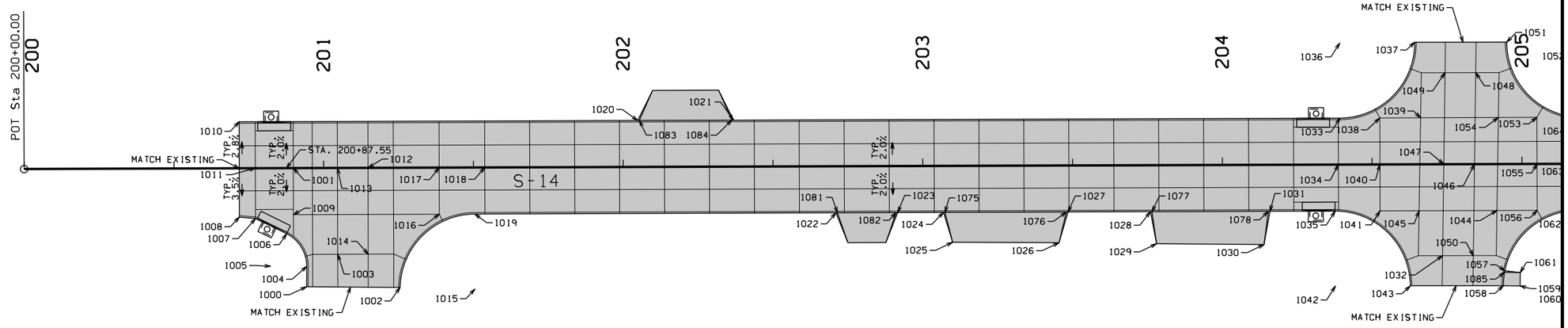
S-14
PAVEMENT MARKINGS AND TRAFFIC SIGNING

SHEET NO.
K.02



NOTES:
1. DIMENSIONS SHOWN ARE TO THE BACK OF CURB
2. ALL LONGITUDINAL JOINTS SHALL BE L-2 UNLESS INDICATED OTHERWISE
3. ALL TRANSVERSE JOINTS SHALL BE CD UNLESS INDICATED OTHERWISE
4. ALL JOINTS WHERE DRIVEWAY AND STREET EDGES ABUT SHALL BE "B" UNLESS INDICATED OTHERWISE
5. REFER TO SUDAS FIGURE 7010.01 FOR ADDITIONAL PCC JOINTING DETAILS
6. REFER TO SUDAS FIGURE 6010.514 FOR 36" BOXOUT IN PCC PAVEMENT
7. REFER TO SUDAS SECTION 7010 FOR ADDITIONAL JOINTING DETAILS AROUND PHYSICAL FEATURES

0 20 FEET



NOTES:
1. ELEVATIONS ARE SHOWN AT TOP OF PAVEMENT OR FROM GRADE UNLESS NOTED OTHERWISE
2. REFER TO G SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION
3. REFER TO SHEET L.04 FOR POINT TABLES AND INFORMATION

0 20 FEET

DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/7/2021	10:15:16 AM	hmanter	
CAD FILE: ...\Sheets\SHT_40100100_L01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

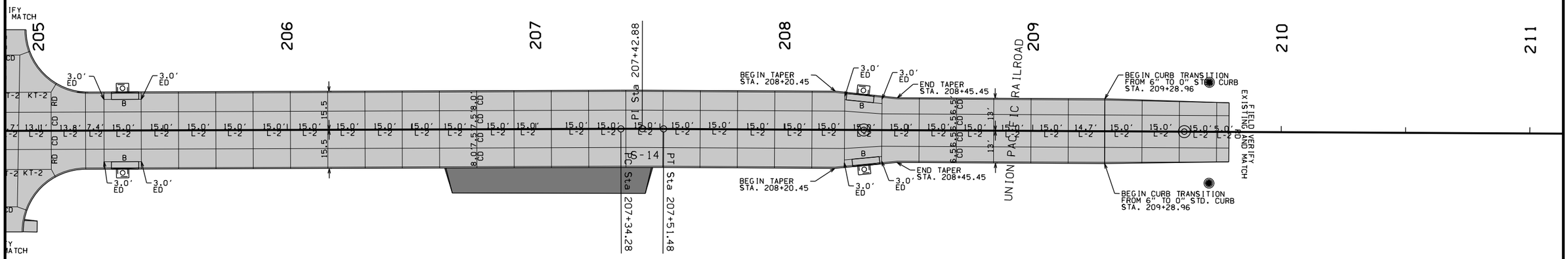
HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

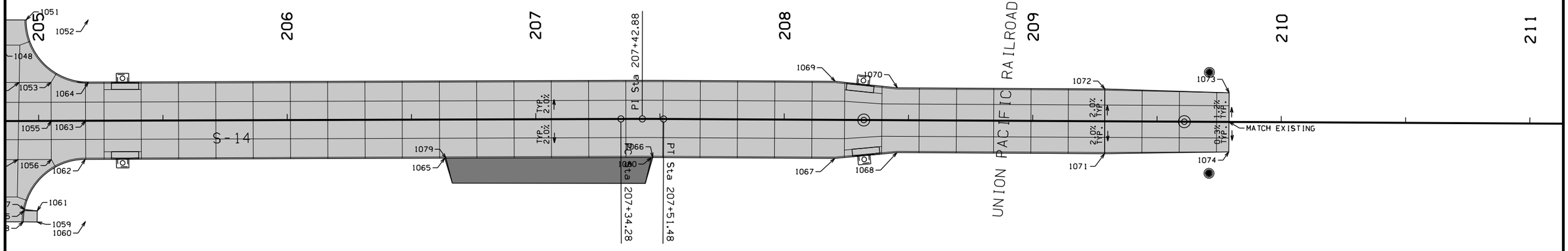
S-14
GEOMETRIC, JOINTING AND STAKING

SHEET NO.
L.01



NOTES:
1. DIMENSIONS SHOWN ARE TO THE BACK OF CURB
2. ALL LONGITUDINAL JOINTS SHALL BE L-2 UNLESS INDICATED OTHERWISE
3. ALL TRANSVERSE JOINTS SHALL BE CD UNLESS INDICATED OTHERWISE
4. ALL JOINTS WHERE DRIVEWAY AND STREET EDGES ABUT SHALL BE "B" UNLESS INDICATED OTHERWISE
5. REFER TO SUDAS FIGURE 7010.01 FOR ADDITIONAL PCC JOINTING DETAILS
6. REFER TO SUDAS FIGURE 6010.514 FOR 36" BOXOUT IN PCC PAVEMENT
7. REFER TO SUDAS SECTION 7010 FOR ADDITIONAL JOINTING DETAILS AROUND PHYSICAL FEATURES

0 20 FEET



NOTES:
1. ELEVATIONS ARE SHOWN AT TOP OF PAVEMENT OR FROM GRADE UNLESS NOTED OTHERWISE
2. REFER TO G SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION
3. REFER TO SHEET L.04 FOR POINT TABLES AND INFORMATION

0 20 FEET

DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/7/2021	10:15:17 AM	hmanter	
CAD FILE: ...\Sheets\SHT_40100100_L01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

S-14
GEOMETRIC, JOINTING AND STAKING

SHEET NO.
L.02

Point	Station	Offset	Elevation	Notes
1000	200+94.16	39.53	986.15	MATCH EXISTING, FORM GRADE
1001	200+89.84	0.00	988.01	TOP OF PAVENEMT
1002	201+25.38	39.88	986.09	MATCH EXISTING, FORM GRADE
1003	201+04.60	28.76	986.58	TOP OF PAVENEMT
1004	200+94.23	32.76	986.54	BEGIN RADIUS, 12',FORM GRADE
1005	200+82.16	32.67	N/A	CENTER OF RADIUS, 12'
1006	200+87.55	21.87	987.33	BEGIN RADIUS, 12',FORM GRADE
1007	200+77.21	16.76	988.00	BOC,FORM GRADE
1008	200+71.79	16.27	988.31	MATCH EXISTING, FORM GRADE
1009	200+89.84	15.50	987.63	TOP OF PAVENEMT
1010	200+71.85	-15.50	988.45	MATCH EXISTING, FORM GRADE
1011	200+77.21	0.00	988.62	TOP OF PAVENEMT
1012	201+14.81	0.00	986.80	TOP OF PAVENEMT
1013	201+04.60	0.00	987.30	TOP OF PAVENEMT
1014	201+14.78	28.76	986.32	TOP OF PAVENEMT
1015	201+50.37	40.50	N/A	CENTER OF RADIUS, 25'
1016	201+38.56	15.50	985.31	TOP OF PAVENEMT
1017	201+38.56	0.00	985.65	TOP OF PAVENEMT
1018	201+53.78	0.00	984.91	TOP OF PAVENEMT
1019	201+50.37	15.50	984.77	BEGIN RADIUS, 25',FORM GRADE
1020	202+04.88	-15.50	982.13	BOC,FORM GRADE
1021	202+36.89	-15.50	980.72	BOC,FORM GRADE
1022	202+70.94	15.50	979.46	BOC,FORM GRADE
1023	202+91.60	15.50	978.82	BOC,FORM GRADE
1024	203+06.86	15.50	978.41	BOC,FORM GRADE
1025	203+09.86	25.46	977.81	MATCH EXISTING, DRIVEWAY
1026	203+45.42	25.70	977.61	MATCH EXISTING, DRIVEWAY
1027	203+48.42	15.50	977.53	BOC,FORM GRADE
1028	203+75.97	15.50	977.16	BOC,FORM GRADE
1029	203+77.97	26.20	977.05	MATCH EXISTING, DRIVEWAY
1030	204+13.83	26.59	976.79	MATCH EXISTING, DRIVEWAY
1031	204+15.83	15.50	976.91	BOC,FORM GRADE
1032	204+73.43	30.49	976.83	TOP OF PAVENEMT
1033	204+39.34	-15.50	977.43	BEGIN RADIUS, 25',FORM GRADE
1034	204+38.77	0.00	977.24	TOP OF PAVENEMT
1035	204+37.62	15.50	977.42	BEGIN RADIUS, 25',FORM GRADE
1036	204+39.34	-40.50	N/A	CENTER OF RADIUS,25'
1037	204+64.36	-40.68	976.59	MATCH EXISTING, FORM GRADE
1038	204+52.62	-15.50	976.95	TOP OF PAVENEMT
1039	204+66.22	-15.50	977.02	TOP OF PAVENEMT
1040	204+52.62	0.00	977.28	TOP OF PAVENEMT
1041	204+52.62	15.50	976.95	TOP OF PAVENEMT
1042	204+37.62	40.50	N/A	CENTER OF RADIUS,25'

Point	Station	Offset	Elevation	Notes
1043	204+62.62	40.54	976.56	MATCH EXISTING, FORM GRADE
1044	204+91.63	15.50	977.11	TOP OF PAVENEMT
1045	204+65.63	15.50	977.02	TOP OF PAVENEMT
1046	204+84.18	0.00	977.40	TOP OF PAVENEMT
1047	204+73.94	0.00	977.36	TOP OF PAVENEMT
1048	204+84.67	-30.49	976.92	TOP OF PAVENEMT
1049	204+74.45	-30.51	976.86	TOP OF PAVENEMT
1050	204+83.68	30.51	976.87	TOP OF PAVENEMT
1051	204+95.06	-40.62	976.74	MATCH EXISTING, FORM GRADE
1052	205+20.06	-40.50	N/A	CENTER OF RADIUS,25'
1053	205+05.06	-15.50	977.15	TOP OF PAVENEMT
1054	204+92.22	-15.50	977.11	TOP OF PAVENEMT
1055	205+05.06	0.00	977.47	TOP OF PAVENEMT
1056	205+05.06	15.50	977.14	TOP OF PAVENEMT
1057	204+94.17	35.55	976.78	BOC,FORM GRADE
1058	204+93.68	40.54	976.77	MATCH EXISTING,
1059	204+99.23	40.63	977.05	MATCH EXISTING,
1060	205+18.68	40.50	N/A	CENTER OF RADIUS,25'
1061	204+99.30	36.19	977.16	MATCH EXISTING,
1062	205+18.68	15.50	977.21	BEGIN RADIUS, 25',FORM GRADE
1063	205+18.90	0.00	977.52	TOP OF PAVENEMT
1064	205+20.06	-15.50	977.21	BEGIN RADIUS, 25',FORM GRADE
1065	206+65.59	15.50	977.27	BOC,FORM GRADE
1066	207+47.13	15.50	978.02	BOC,FORM GRADE
1067	208+20.45	15.50	978.28	BOC,FORM GRADE
1068	208+45.45	13.00	978.42	BOC,FORM GRADE
1069	208+20.45	-15.50	978.28	BOC,FORM GRADE
1070	208+45.45	-13.00	978.42	BOC,FORM GRADE
1071	209+28.96	13.00	979.33	BOC,FORM GRADE
1072	209+28.96	-13.00	979.33	BOC,FORM GRADE
1073	209+78.96	-11.69	980.85	MATCH EXISTING, TOP OF PAVENEMT
1074	209+78.96	12.05	980.96	MATCH EXISTING, TOP OF PAVENEMT
1075	203+07.39	15.50	978.39	BOC,FORM GRADE, 1/2" CURB DROP
1076	203+47.90	15.50	977.54	BOC,FORM GRADE, 1/2" CURB DROP
1077	203+76.47	15.50	977.16	BOC,FORM GRADE, 1/2" CURB DROP
1078	204+15.32	15.50	976.91	BOC,FORM GRADE, 1/2" CURB DROP
1079	206+63.86	15.50	977.72	BOC,FORM GRADE, 1/2" CURB DROP
1080	207+46.60	15.50	978.02	BOC,FORM GRADE, 1/2" CURB DROP
1081	202+71.48	15.50	979.44	BOC,FORM GRADE, 1/2" CURB DROP
1082	202+91.06	15.50	978.84	BOC,FORM GRADE, 1/2" CURB DROP
1083	202+05.43	-15.50	982.11	BOC,FORM GRADE, 1/2" CURB DROP
1084	202+36.33	-15.50	980.74	BOC,FORM GRADE, 1/2" CURB DROP
1085	204+94.08	36.04	976.78	BOC,FORM GRADE, 1/2" CURB DROP

DRAWN BY: HCM JOB DATE: 2022
APPROVED: LJS JOB NUMBER: 201191
CAD DATE: 12/7/2021 10:15:18 AM hmanter
CAD FILE: ...\Sheets\SHT_40100100_L01.dgn

NO.	DATE	BY	REVISION DESCRIPTION

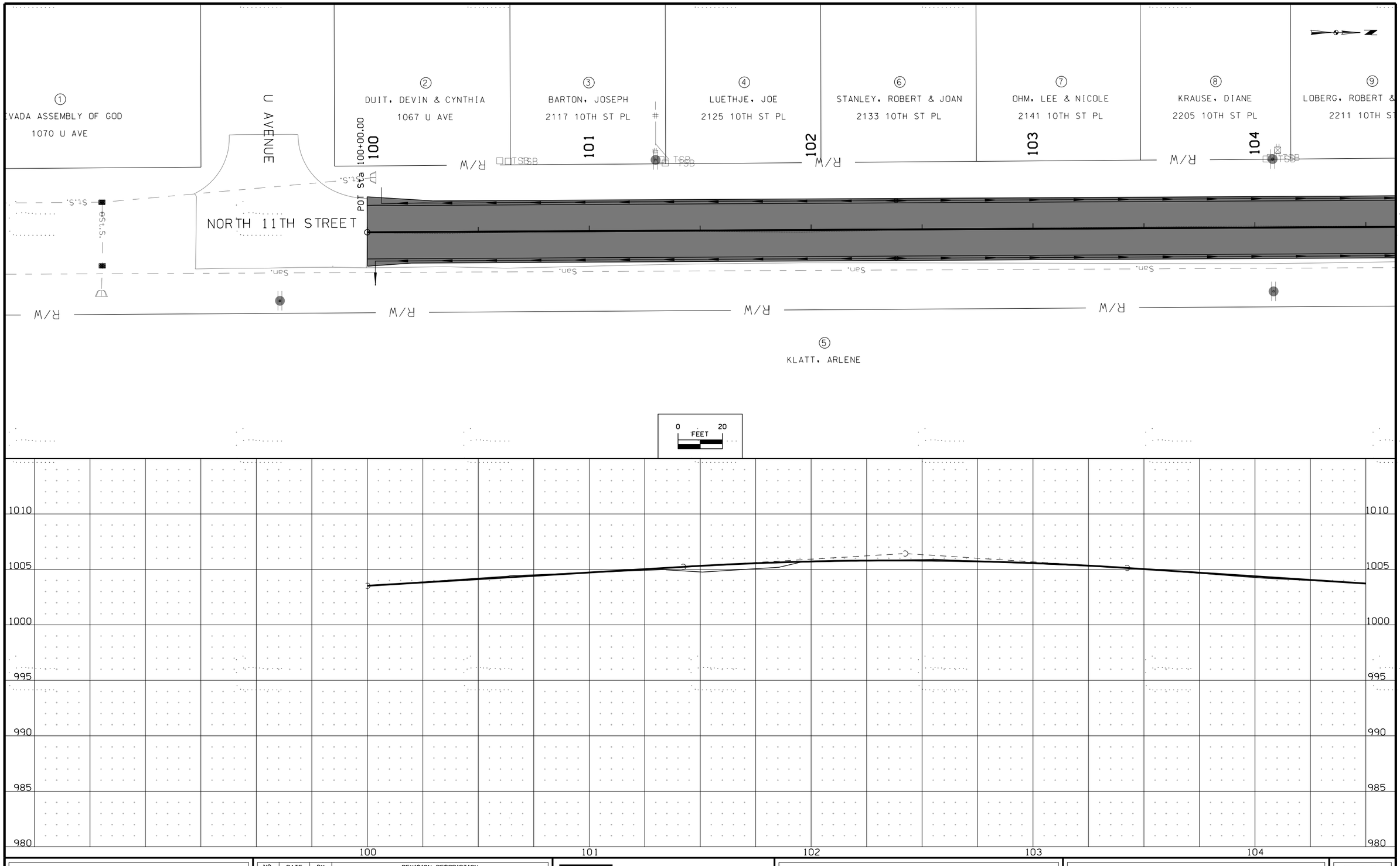
HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

GEOMETRIC, JOINTING AND STAKING

SHEET NO.
L.03



DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	1:40:04 PM hmanter		
CAD FILE: ...\Sheets\SHT_40100100_M01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

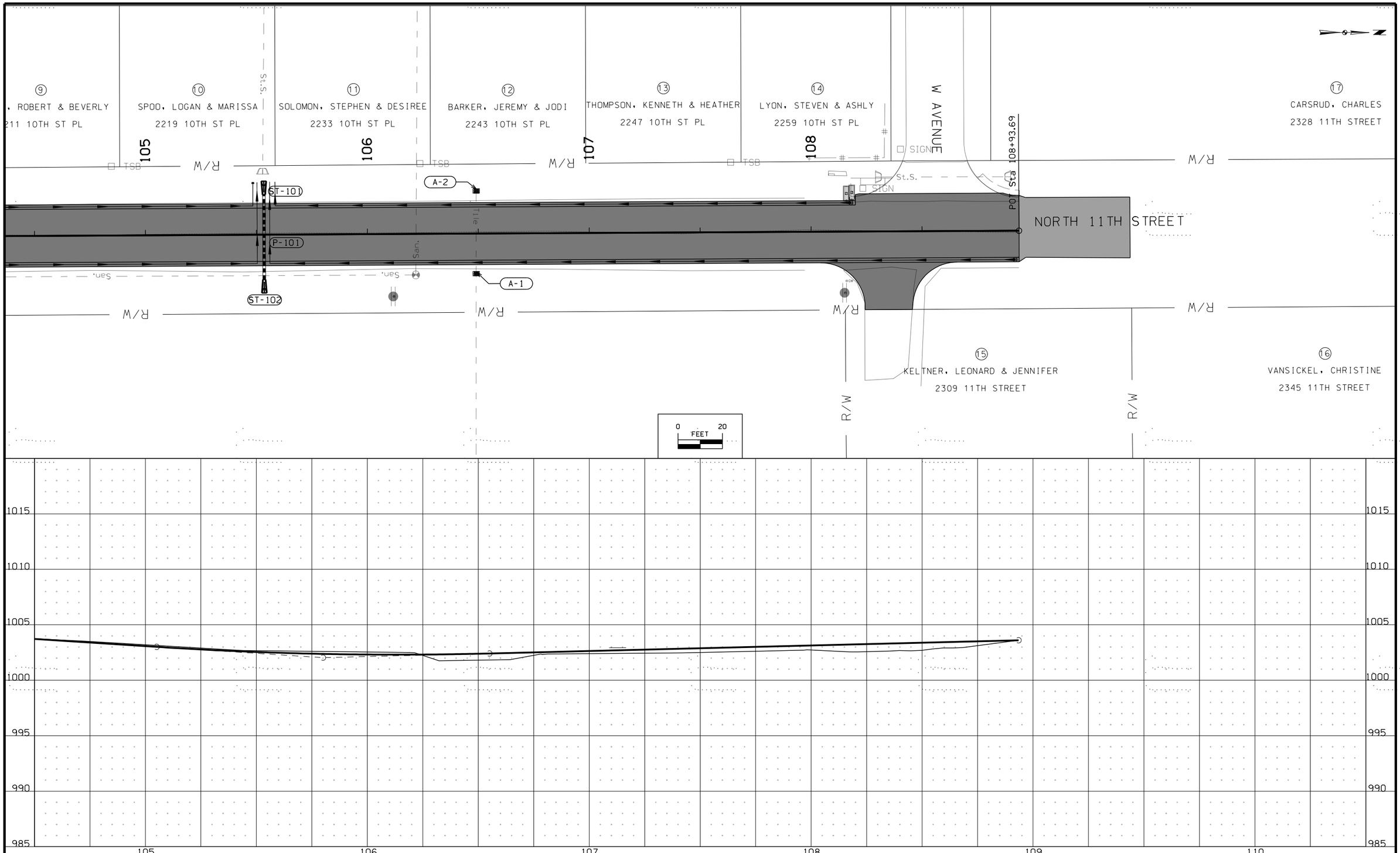
HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

11TH STREET
STORM SEWER PLAN AND PROFILE

SHEET NO.
M.01



DRAWN BY: HCM	JOB DATE: 2022		
APPROVED: LJS	JOB NUMBER: 201191		
CAD DATE: 12/6/2021	1:40:24 PM hmanter		
CAD FILE: ...\Sheets\SHT_40100100_M01.dgn			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen.com
HRGreen

2022 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2022

11TH STREET
STORM SEWER PLAN AND PROFILE

SHEET NO.
M.02