2024 STREET IMPROVEMENTS

STREET RECONSTRUCTION

City of Nevada, IA 2024

LICENSED PROFESSIONAL ENGINEER
BRANDON L. MICKELSON
2442528
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.

1/3/2024

BRANDON L. MICKELSON, P.E. DATE

License Number: 2442528

My license renewal date is DECEMBER 31, 2025

Pages or sheets covered by this seal:

ALL SHEETS

LOCATION MAP

HR GREEN PROJECT NUMBER 2303452

THE IOWA STATEWIDE URBAN DESIGN AND SPECIFCATIONS (SUDAS) LATEST REVISIONS - 2023 EDITION, APPLICABLE SUPPLEMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS, SHALL APPLY TO CONSTRUCTION ON THIS PROJECT.

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HRGreen

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STANDARD SYMBOLS

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

UTILITY LEGEND

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BlaineTibben@alliantenergy.com

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MEDIACOM
WOLFGANG SPENCER
(845) 587-2497
wspencer@mediacomcc.com

WINDSTREAM COMMUNICATIONS
(515) 401-2668
haley.sandberg@windstream.com

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

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
—P/L—	Property Line
—T/E—	Temporary Construction Easement

Legend And Symbol Information Sheet

(Symbols are Typical Only)

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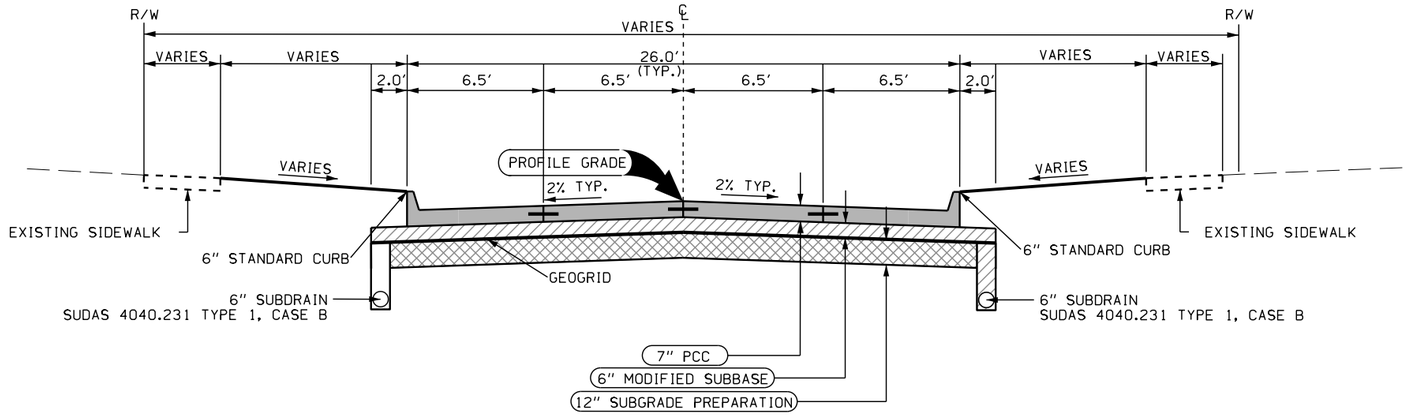
2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA, 2023

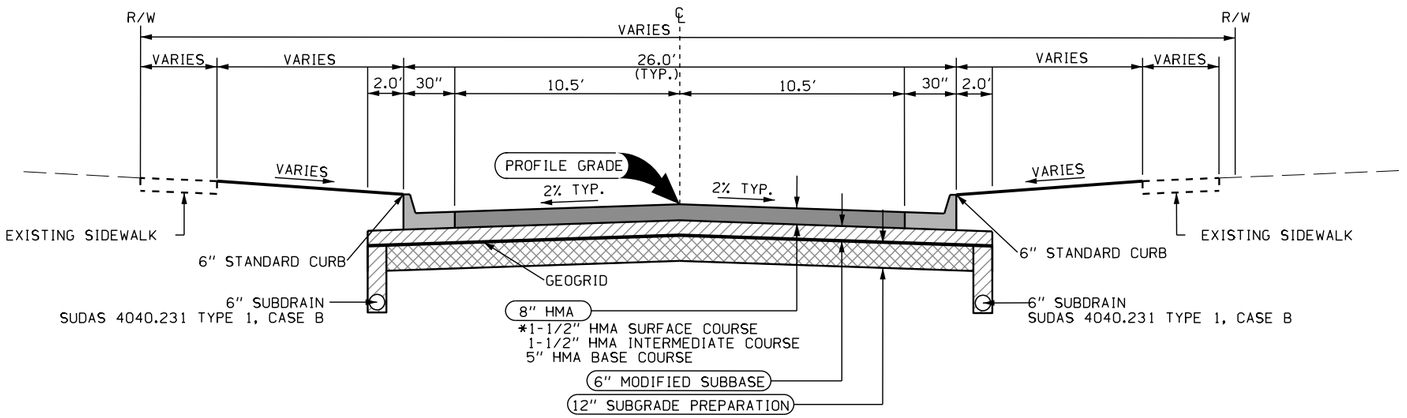
LEGEND AND SYMBOLS

SHEET NO.
A02



Location		
Road Identification	Station to Station	
I AVENUE	101+05.02	103+82.69
H AVENUE	201+04.11	203+83.03
H AVENUE	204+59.06	207+54.42
9TH STREET	301+10.33	306+56.98

OPTION A
TYPICAL CROSS SECTION
FULL RECONSTRUCTION - PCC



Location		
Road Identification	Station to Station	
I AVENUE	101+05.02	103+82.69
H AVENUE	201+04.11	203+83.03
H AVENUE	204+59.06	207+54.42
9TH STREET	301+10.33	306+56.98

OPTION B
TYPICAL CROSS SECTION
FULL RECONSTRUCTION - HMA

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Model: B.01

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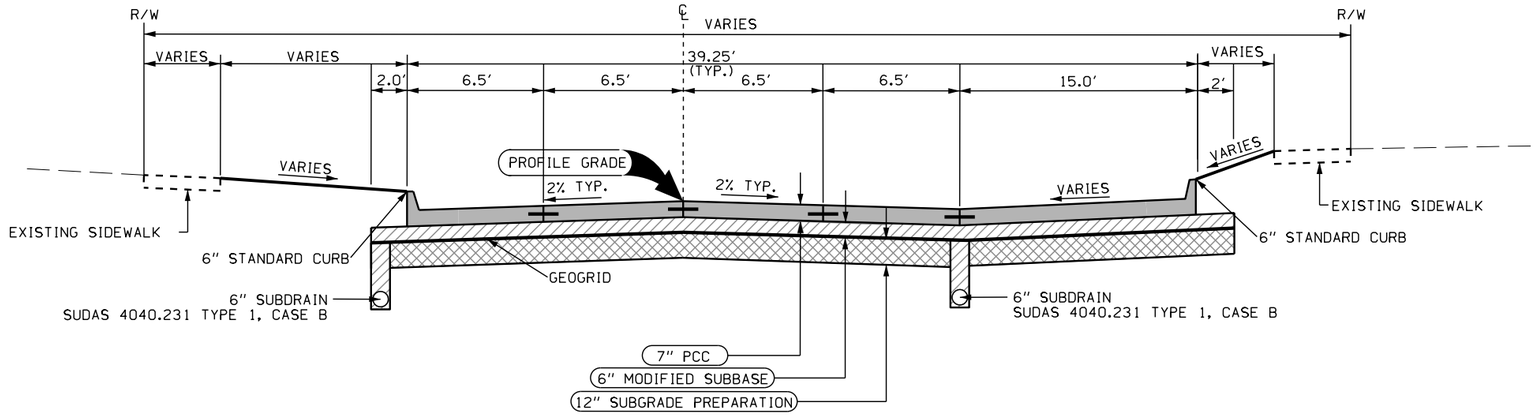
2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA, 2023

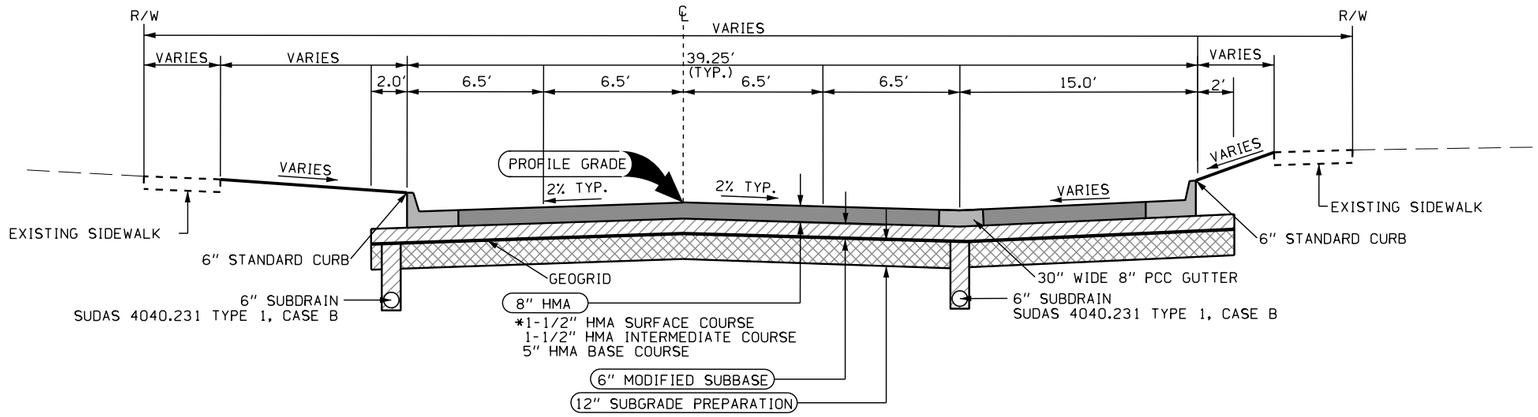
TYPICAL SECTIONS AND DETAILS

SHEET NO.
B.01



Location		
Road Identification	Station to Station	
9TH STREET	306+56.98	307+73.79

OPTION A
TYPICAL CROSS SECTION
FULL RECONSTRUCTION WITH PARKING - PCC



Location		
Road Identification	Station to Station	
9TH STREET	306+56.98	307+73.79

OPTION B
TYPICAL CROSS SECTION
FULL RECONSTRUCTION WITH PARKING - HMA

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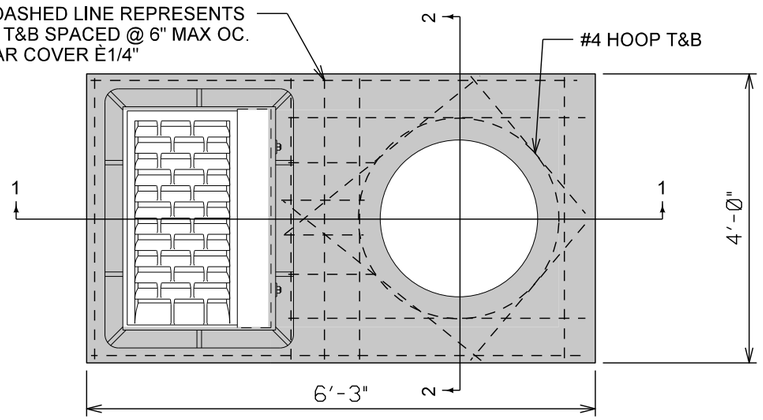
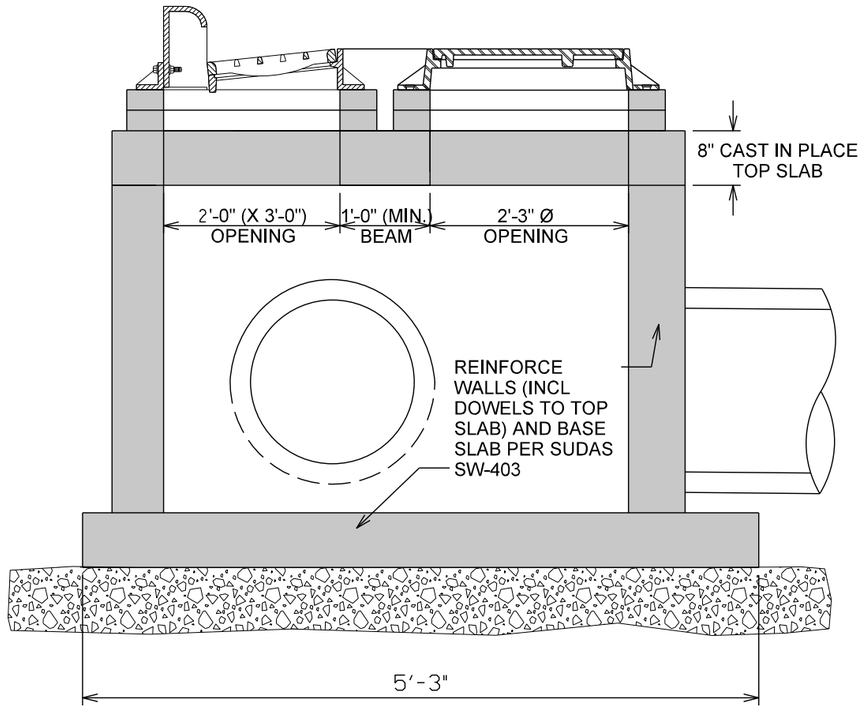
TYPICAL SECTIONS AND DETAILS

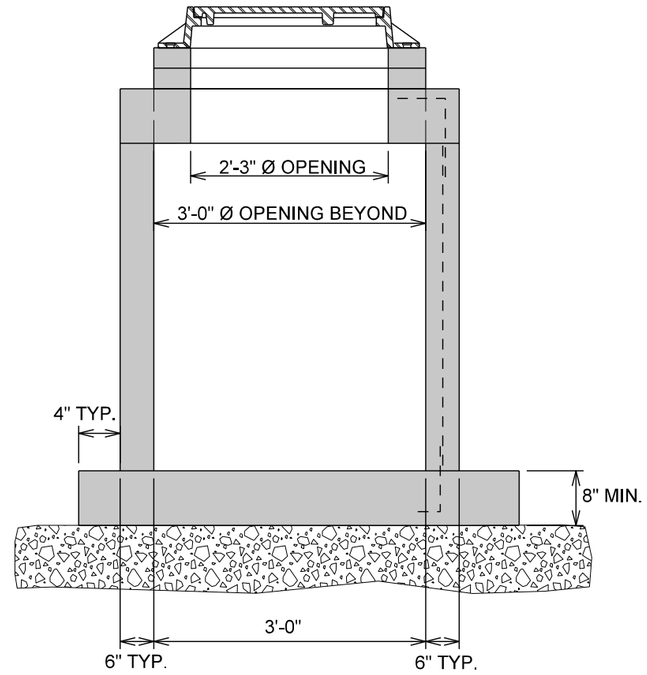
SHEET NO.
B.02



TOP SLAB PLAN (S350)



SECTION 1-1



SECTION 2-2

SW-503; MODIFIED
STORM STRUCTURE DETAILS

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2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA, 2023

TYPICAL SECTIONS AND DETAILS

SHEET NO.
B.03

100-1D
10-18-05

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF IMPROVEMENTS TO I AVENUE, 9TH STREET, H AVENUE, AND 10TH STREET IN NEVADA, IOWA. THE PROJECT IS LOCATED ON I AVENUE FROM 8TH STREET TO 9TH STREET, 9TH STREET FROM I AVENUE TO G AVENUE, H AVENUE FROM 8TH STREET TO 10TH STREET, AND THE INTERSECTION OF 10TH STREET AND H AVENUE. THIS PROJECT INCLUDES ROADWAY PAVEMENT, SIDEWALK, DRIVEWAYS, WATER MAIN, STORM SEWER, AND SANITARY SEWER.

100-1A
07-15-97

ESTIMATED PROJECT QUANTITIES
(1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty.
OPTION A- PCC					
2-A-1	2010-D-3	TOPSOIL OFF-SITE	CY	1209	
2-A-2	2010-E	EXCAVATION, CLASS 13	CY	2565	
2-A-3	2010-G	SUBGRADE PREPARATION	SY	6880	
2-A-4	2010-I	SUBGRADE TREATMENT, GEOGRID	SY	6880	
2-A-5	2010-J	SUBBASE, MODIFIED 6"	SY	6880	
2-A-6	2010-M	COMPACTION TESTING	LS	1	
2-A-7	2010-X	EXPLORATORY EXCAVATION	HR	32	
2-A-8	3010-F	TRENCH COMPACTION TESTING	LS	1	
2-A-9	4010-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 4"	LF	54	
2-A-10	4010-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 10"	LF	799	
2-A-11	4010-E	SANITARY SEWER SERVICE STUB, PVC, 4"	LF	423	
2-A-12	4010-E	SANITARY SEWER SERVICE STUB, PVC, 6"	LF	423	
2-A-13	4010-H	REMOVAL OF SANITARY SEWER, VCP, 4"	LF	54	
2-A-14	4010-H	REMOVAL OF SANITARY SEWER, VCP, 10"	LF	798	
2-A-15	4020-A-1	STORM SEWER, TRENCHED, PVC, 8"	LF	64	
2-A-16	4020-A-1	STORM SEWER, TRENCHED, PVC, 12"	LF	16	
2-A-17	4020-A-1	STORM SEWER, TRENCHED, RCP, 15"	LF	608	
2-A-18	4020-A-1	STORM SEWER, TRENCHED, RCP, 18"	LF	384	
2-A-19	4020-A-1	STORM SEWER, TRENCHED, RCP, 24"	LF	520	
2-A-20	4020-A-1	STORM SEWER, TRENCHED, RCP, 30"	LF	64	
2-A-21	4020-D	REMOVAL OF STORM SEWER, PVC, 6"	LF	26	
2-A-22	4020-D	REMOVAL OF STORM SEWER, PVC, 8"	LF	16	
2-A-23	4020-D	REMOVAL OF STORM SEWER, VCP, 8"	LF	106	
2-A-24	4020-D	REMOVAL OF STORM SEWER, VCP, 10"	LF	210	
2-A-25	4020-D	REMOVAL OF STORM SEWER, VCP, 12"	LF	377	
2-A-26	4020-D	REMOVAL OF STORM SEWER, RCP, 15"	LF	82	
2-A-27	4020-D	REMOVAL OF STORM SEWER, VCP, 18"	LF	176	
2-A-28	4020-G	STORM SEWER ABANDONMENT, FILL AND PLUG	LF	175	
2-A-29	4040-A	SUBDRAIN, TYPE 1, PVC, 6"	LF	1691	
2-A-30	4040-B	FOOTING DRAIN COLLECTOR, PERFORATED PVC, 8"	LF	232	
2-A-31	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, PVC, 6"	EA	8	
2-A-32	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, PVC, 6"	EA	14	
2-A-33	5010-A-1	WATER MAIN, TRENCHED, PVC, 4"	LF	30	
2-A-34	5010-A-1	WATER MAIN, TRENCHED, PVC, 8"	LF	390	
2-A-35	5010-A-1	WATER MAIN, TRENCHED, PVC, 10"	LF	821	
2-A-36	5010-A-2	WATER MAIN, TRENCHLESS, PVC, RESTRAINED JOINT, 8"	LF	173	
2-A-37	5010-A-2	WATER MAIN, TRENCHLESS, PVC, RESTRAINED JOINT, 10"	LF	515	
2-A-38	5010-C-2	FITTINGS, DUCTILE IRON, MECHANICAL JOINT, BY WEIGHT	LB	2500	
2-A-39	5010-D	WATER SERVICE STUB	EA	15	
2-A-40	5010-E-1	WATER SERVICE PIPE, COPPER 1"	LF	500	
2-A-41	5020-A	VALVE, GATE, 8"	EA	7	
2-A-42	5020-A	VALVE, GATE, 10"	EA	9	
2-A-43	5020-A	VALVE, INSERTION, 4"-10"	EA	2	
2-A-44	5020-C	FIRE HYDRANT ASSEMBLY	EA	5	
2-A-45	5020-J	FIRE HYDRANT ASSEMBLY REMOVAL	EA	4	
2-A-46	6010-A	SANITARY SEWER MANHOLE, SW-301, 48"	EA	2	
2-A-47	6010-A	STORM SEWER MANHOLE, SW-401, 48"	EA	5	
2-A-48	6010-A	STORM SEWER MANHOLE, SW-401, 60"	EA	2	
2-A-49	6010-A	STORM SEWER MANHOLE, SW-401, 72"	EA	1	
2-A-50	6010-B	STORM SEWER INTAKE, SW-501	EA	5	
2-A-51	6010-B	STORM SEWER INTAKE, SW-503; MODIFIED	EA	1	
2-A-52	6010-B	STORM SEWER INTAKE, SW-505	EA	8	
2-A-53	6010-B	STORM SEWER INTAKE, SW-506	EA	5	
2-A-54	6010-B	STORM SEWER INTAKE, SW-512, 24"	EA	1	
2-A-55	6010-E-1	MANHOLE ADJUSTMENT, MINOR	EA	1	
2-A-56	6010-G-2	CONNECTION TO EXISTING INTAKE	EA	2	
2-A-57	6010-H-1	REMOVE MANHOLE	EA	8	
2-A-58	6010-H-2	REMOVE INTAKE	EA	11	
2-A-59	7010-A	PAVEMENT, PCC, 7"	SY	6087	
2-A-60	7010-I	PCC PAVEMENT SAMPLES AND TESTING	LS	1	
2-A-61	7030-A-1	REMOVAL OF SIDEWALK	SY	503	
2-A-62	7030-A-3	REMOVAL OF DRIVEWAY	SY	617	
2-A-63	7030-E	SIDEWALK, PCC, 4"	SY	270	
2-A-64	7030-E	SIDEWALK, PCC, 6"	SY	299	
2-A-65	7030-G	DETECTABLE WARNING	SF	278	
2-A-66	7030-H-1	DRIVEWAY, PAVED, PCC, 6"	SY	702	
2-A-67	7040-A	FULL DEPTH PATCHES, HMA, 8"	SY	42	
2-A-68	7040-H	PAVEMENT REMOVAL	SY	6142	
2-A-69	7092-B	REMOVE AND REPLACE CURB AND GUTTER, PCC, 30"	LF	102	
2-A-70	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE	STA	32.78	
2-A-71	8020-M	GROOVES CUT FOR PAVEMENT MARKINGS	STA	33	
2-A-72	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1	

100-1A
07-15-97

ESTIMATED PROJECT QUANTITIES
(1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty.
2-A-73	9010-A	CONVENTIONAL SEEDING, FERTILIZING, AND MULCHING, TYPE 1	AC	1	
2-A-74	9040-A-1	SWPPP PREPARATION	LS	1	
2-A-75	9040-A-2	SWPPP MANAGEMENT	LS	1	
2-A-76	9040-F-1	WATTLE, 12"	LF	500	
2-A-77	9040-F-2	WATTLE, REMOVAL	LF	500	
2-A-78	9040-T-1	INLET PROTECTION DEVICE	EA	29	
2-A-79	9040-T-2	INLET PROTECTION DEVICE, MAINTENANCE AND REMOVAL	EA	29	
2-A-80	9060-D	REMOVAL AND REINSTALLATION OF CHAIN LINK FENCE	LF	24	
2-A-81	11010-A	CONSTRUCTION SURVEY	LS	1	
2-A-82	11020-A	MOBILIZATION	LS	1	
2-A-83	11030-A	MAINTENANCE OF POSTAL SERVICE	LS	1	
2-A-84	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	
2-A-85	11050-A	CONCRETE WASHOUT	LS	1	
OPTION B - ASPHALT					
2-B-1	2010-D-3	TOPSOIL OFF-SITE	CY	1209	
2-B-2	2010-E	EXCAVATION, CLASS 13	CY	2706	
2-B-3	2010-G	SUBGRADE PREPARATION	SY	6880	
2-B-4	2010-I	SUBGRADE TREATMENT, GEOGRID	SY	6880	
2-B-5	2010-J	SUBBASE, MODIFIED 6"	SY	6880	
2-B-6	2010-M	COMPACTION TESTING	LS	1	
2-B-7	2010-X	EXPLORATORY EXCAVATION	HR	32	
2-B-8	3010-F	TRENCH COMPACTION TESTING	LS	1	
2-B-9	4010-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 4"	LF	54	
2-B-10	4010-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 10"	LF	799	
2-B-11	4010-E	SANITARY SEWER SERVICE STUB, PVC, 4"	LF	423	
2-B-12	4010-E	SANITARY SEWER SERVICE STUB, PVC, 6"	LF	423	
2-B-13	4010-H	REMOVAL OF SANITARY SEWER, VCP, 4"	LF	54	
2-B-14	4010-H	REMOVAL OF SANITARY SEWER, VCP, 10"	LF	798	
2-B-15	4020-A-1	STORM SEWER, TRENCHED, PVC, 8"	LF	64	
2-B-16	4020-A-1	STORM SEWER, TRENCHED, PVC, 12"	LF	16	
2-B-17	4020-A-1	STORM SEWER, TRENCHED, RCP, 15"	LF	608	
2-B-18	4020-A-1	STORM SEWER, TRENCHED, RCP, 18"	LF	384	
2-B-19	4020-A-1	STORM SEWER, TRENCHED, RCP, 24"	LF	520	
2-B-20	4020-A-1	STORM SEWER, TRENCHED, RCP, 30"	LF	64	
2-B-21	4020-D	REMOVAL OF STORM SEWER, PVC, 6"	LF	26	
2-B-22	4020-D	REMOVAL OF STORM SEWER, PVC, 8"	LF	16	
2-B-23	4020-D	REMOVAL OF STORM SEWER, VCP, 8"	LF	106	
2-B-24	4020-D	REMOVAL OF STORM SEWER, VCP, 10"	LF	210	
2-B-25	4020-D	REMOVAL OF STORM SEWER, VCP, 12"	LF	377	
2-B-26	4020-D	REMOVAL OF STORM SEWER, RCP, 15"	LF	82	
2-B-27	4020-D	REMOVAL OF STORM SEWER, VCP, 18"	LF	176	
2-B-28	4020-G	STORM SEWER ABANDONMENT, FILL AND PLUG	LF	175	
2-B-29	4040-A	SUBDRAIN, TYPE 1, PVC, 6"	LF	1691	
2-B-30	4040-A	FOOTING DRAIN COLLECTOR, PERFORATED PVC, 8"	LF	232	
2-B-31	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, PVC, 6"	EA	8	
2-B-32	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, PVC, 6"	EA	14	
2-B-33	5010-A-1	WATER MAIN, TRENCHED, PVC, 4"	LF	30	
2-B-34	5010-A-1	WATER MAIN, TRENCHED, PVC, 8"	LF	390	
2-B-35	5010-A-1	WATER MAIN, TRENCHED, PVC, 10"	LF	821	
2-B-36	5010-A-2	WATER MAIN, TRENCHLESS, PVC, RESTRAINED JOINT, 8"	LF	173	
2-B-37	5010-A-2	WATER MAIN, TRENCHLESS, PVC, RESTRAINED JOINT, 10"	LF	515	
2-B-38	5010-C-2	FITTINGS, DUCTILE IRON, MECHANICAL JOINT, BY WEIGHT	LB	2500	
2-B-39	5010-D	WATER SERVICE STUB	EA	15	
2-B-40	5010-E-1	WATER SERVICE PIPE, COPPER 1"	LF	500	
2-B-41	5020-A	VALVE, GATE, 8"	EA	7	
2-B-42	5020-A	VALVE, GATE, 10"	EA	9	
2-B-43	5020-A	VALVE, INSERTION, 4"-10"	EA	2	
2-B-44	5020-C	FIRE HYDRANT ASSEMBLY	EA	5	
2-B-45	5020-J	FIRE HYDRANT ASSEMBLY REMOVAL	EA	4	
2-B-46	6010-A	SANITARY SEWER MANHOLE, SW-301, 48"	EA	2	
2-B-47	6010-A	STORM SEWER MANHOLE, SW-401, 48"	EA	5	
2-B-48	6010-A	STORM SEWER MANHOLE, SW-401, 60"	EA	2	
2-B-49	6010-A	STORM SEWER MANHOLE, SW-401, 72"	EA	1	
2-B-50	6010-B	STORM SEWER INTAKE, SW-501	EA	5	
2-B-51	6010-B	STORM SEWER INTAKE, SW-503; MODIFIED	EA	1	
2-B-52	6010-B	STORM SEWER INTAKE, SW-505	EA	8	
2-B-53	6010-B	STORM SEWER INTAKE, SW-506	EA	5	
2-B-54	6010-B	STORM SEWER INTAKE, SW-512, 24"	EA	1	
2-B-55	6010-E-1	MANHOLE ADJUSTMENT, MINOR	EA	1	
2-B-56	6010-G-2	CONNECTION TO EXISTING INTAKE	EA	2	
2-B-57	6010-H-1	REMOVE MANHOLE	EA	8	
2-B-58	6010-H-2	REMOVE INTAKE	EA	11	
2-B-59	7010-E	CURB AND GUTTER, 30"	LF	3611	
2-B-60	7020-B	PAVEMENT, HMA, 8"	SY	5084	
2-B-61	7020-I	HMA PAVEMENT SAMPLES AND TESTING	LS	1	
2-B-62	7030-A-1	REMOVAL OF SIDEWALK	SY	503	
2-B-63	7030-A-3	REMOVAL OF DRIVEWAY	SY	617	
2-B-64	7030-E	SIDEWALK, PCC, 4"	SY	270	
2-B-65	7030-E	SIDEWALK, PCC, 6"	SY	299	
2-B-66	7030-G	DETECTABLE WARNING	SF	278	
2-B-67	7030-H-1	DRIVEWAY, PAVED, PCC, 6"	SY	702	
2-B-68	7040-A	FULL DEPTH PATCHES, HMA, 8"	SY	42	

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2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES
AND GENERAL INFORMATION

SHEET NO.
C.01

100-1A
07-15-97

ESTIMATED PROJECT QUANTITIES
(1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty.
2-B-69	7040-H	PAVEMENT REMOVAL	SY	6142	
2-B-70	7092-B	REMOVE AND REPLACE CURB AND GUTTER, PCC, 30"	LF	102	
2-B-71	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE	STA	32.78	
2-B-72	8020-M	GROOVES CUT FOR PAVEMENT MARKINGS	STA	33	
2-B-73	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1	
2-B-74	9010-A	CONVENTIONAL SEEDING, FERTILIZING, AND MULCHING, TYPE 1	AC	1	
2-B-75	9040-A-1	SWPPP PREPARATION	LS	1	
2-B-76	9040-A-2	SWPPP MANAGEMENT	LS	1	
2-B-77	9040-F-1	WATTLE, 12"	LF	500	
2-B-78	9040-F-2	WATTLE, REMOVAL	LF	500	
2-B-79	9040-T-1	INLET PROTECTION DEVICE	EA	29	
2-B-80	9040-T-2	INLET PROTECTION DEVICE, MAINTENANCE AND REMOVAL	EA	29	
2-B-81	9060-D	REMOVAL AND REINSTALLATION OF CHAIN LINK FENCE	LF	24	
2-B-82	11010-A	CONSTRUCTION SURVEY	LS	1	
2-B-83	11020-A	MOBILIZATION	LS	1	
2-B-84	11030-A	MAINTENANCE OF POSTAL SERVICE	LS	1	
2-B-85	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	
2-B-86	11050-A	CONCRETE WASHOUT	LS	1	

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
OPTION A - PCC		
2-A-1	2010-D-3	TOPSOIL OFF-SITE
		1. USE TOPSOIL MEETING REQUIREMENTS OF SUDAS, SECTION 2010, 2.01, C.
		2. SUITABLE ON-SITE TOPSOIL MAY BE USED.
		3. TESTING OF TOPSOIL REQUIRED TO ENSURE REQUIREMENTS ARE MET
		4. STRIPPING AND REMOVAL OF EXISTING 8" OF TOPSOIL INCLUDED IN EXCAVATION, CLASS 13 ITEM.
2-A-2	2010-E	EXCAVATION, CLASS 13
		1. INCLUDES 1,106 CY REQUIRED FOR PROPOSED VOLUME OF 6" MODIFIED SUBBASE AND 1,209 CY OF ON-SITE TOPSOIL EXCAVATION.
		2. REMOVAL OF SIGNS SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. ALL SIGNS SHALL BE RETURNED TO CITY OF NEVADA FOR REINSTALLATION.
2-A-3	2010-G	SUBGRADE PREPARATION
		1. COMPACT ACCORDING TO SUDAS, SECTION 2010, 3.06, C.
2-A-4	2010-I	SUBGRADE TREATMENT, GEOGRID
2-A-5	2010-J	SUBBASE, MODIFIED 6"
2-A-6	2010-M	COMPACTION TESTING
2-A-7	2010-X	EXPLORATORY EXCAVATION
		1. MEASUREMENT SHALL BE FOR EACH HOUR OF EXPLORATORY EXCAVATION AS SHOWN ON THE PLANS OR APPROVED BY THE ENGINEER. PAYMENT SHALL BE CONSIDERED FULL COMPENSATION FOR EXPLORATORY EXCAVATION WITH A VACUUM TRENCH OR EXCAVATOR AND SUBSIDIARY LABOR AND MATERIALS. PAYMENT WILL BE MADE TO THE NEAREST ONE-HALF HOUR. LOCATING UTILITY LINES SHOWN ON THE PLANS AND AS MARKED BY IOWA ONE CALL WILL NOT BE COVERED UNDER THIS BID ITEM, UNLESS NOTED OTHERWISE ON THE PLANS, THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE MAJOR WORK BEING COMPLETED.
		2. ASSUMED FOUR HOURS PER EACH LOCATION IDENTIFIED IN THE PLANS.
2-A-8	3010-F	TRENCH COMPACTION TESTING
2-A-9	4010-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 4"
2-A-10	4010-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 10"
		1. PIPE SHALL BE SOLID WALL PVC, SDR 26 IN CONFORMANCE WITH SUDAS, SECTION 4010, 2.01, A.
		2. BYPASS PUMPING INCIDENTAL TO INSTALLATION OF SANITARY SEWER.
		3. TESTING IS INCIDENTAL AND WILL NOT BE PAID SEPARATELY. LOW PRESSURE AIR TESTING NOT REQUESTED. VIDEO INSPECTION PER SUDAS, SECTION 4060, PARAGRAPH 3.02 AND DEFLECTION TESTING AS PER SUDAS, SECTION 4060, PARAGRAPH 3.04 SHALL ALSO BE PERFORMED.
		4. TEMPORARY CONNECTIONS TO EXISTING PIPE DUE TO CONSTRUCTION STAGING SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
		5. SEE MSA.02 FOR EXPLORATORY EXCAVATION TO VERIFY EXISTING SANITARY SEWER SIZE AT BURIED DROP CONNECTION. ASSUMED TO BE 10" BUT MAY BE 8". VERIFY PRIOR TO ORDERING MATERIALS.
2-A-11	4010-E	SANITARY SEWER SERVICE STUB, PVC, 4"
2-A-12	4010-E	SANITARY SEWER SERVICE STUB, PVC, 6"
		1. QUANTITY IS TAKEN FROM SEWER MAIN TO ROW.
		2. INCLUDES REMOVAL OF EXISTING SERVICE LINE.
		3. TRENCH SHORING AND DEWATERING ARE INCIDENTAL TO THIS ITEM.
		4. BYPASS PUMPING MAY BE REQUIRED AND SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
		5. SANITARY SERVICES ARE SHOWN ON THE DRAWINGS WHERE KNOWN. SERVICE LINE LOCATIONS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. WHERE THESE EXISTING UTILITIES ARE NOT IDENTIFIED, CONTRACTOR SHALL FIELD VERIFY LOCATION. COORDINATE WITH CITY OF NEVADA.

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
2-A-13	4010-H	REMOVAL OF SANITARY SEWER, VCP, 4"
2-A-14	4010-H	REMOVAL OF SANITARY SEWER, VCP, 10"
		1. REFER TO C SHEETS FOR SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL TABULATION.
		2. BYPASS PUMPING INCIDENTAL TO REMOVAL OF SANITARY SEWER.
2-A-15	4020-A-1	STORM SEWER, TRENCHED, PVC, 8"
2-A-16	4020-A-1	STORM SEWER, TRENCHED, PVC, 12"
2-A-17	4020-A-1	STORM SEWER, TRENCHED, RCP, 15"
2-A-18	4020-A-1	STORM SEWER, TRENCHED, RCP, 18"
2-A-19	4020-A-1	STORM SEWER, TRENCHED, RCP, 24"
2-A-20	4020-A-1	STORM SEWER, TRENCHED, RCP, 30"
		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. GRANULAR BACKFILL IS INCIDENTAL.
		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 AND WHERE STORM SEWER IS BETWEEN 3' AND 10' FROM THE WATER MAIN.
		5. CONNECTIONS TO EXISTING PIPE/ STRUCTURES INCIDENTAL TO THIS ITEM. MAINTAIN AND RE-ESTABLISH ALL TIE-INS AND EXISTING CONNECTION TO EXISTING STRUCTURES AND PIPES UNLESS INDICATED OTHERWISE IN THE PLANS.
		6. TEMPORARY CONNECTIONS TO EXISTING DUE TO CONSTRUCTION STAGING INCIDENTAL TO THIS ITEM.
2-A-21	4020-D	REMOVAL OF STORM SEWER, PVC, 6"
2-A-22	4020-D	REMOVAL OF STORM SEWER, PVC, 8"
2-A-23	4020-D	REMOVAL OF STORM SEWER, VCP, 8"
2-A-24	4020-D	REMOVAL OF STORM SEWER, VCP, 10"
2-A-25	4020-D	REMOVAL OF STORM SEWER, VCP, 12"
2-A-26	4020-D	REMOVAL OF STORM SEWER, RCP, 15"
2-A-27	4020-D	REMOVAL OF STORM SEWER, VCP, 18"
2-A-28	4020-G	STORM SEWER ABANDONMENT, FILL AND PLUG
		1. REFER TO C SHEETS FOR SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL TABULATION.
		2. ABANDONMENT ITEM IS FOR IF STORM SEWER IS ENCOUNTERED DURING EXPLORATORY EXCAVATION. STORM SEWER SIZE ASSUMED TO BE APPROXIMATELY 12" DIA.
		3. QUANTITY IS FOR FILLING OF STORM SEWER UNDER PRIVATE PROPERTY ONLY.
2-A-29	4040-A	SUBDRAIN, TYPE 1, PVC, 6"
2-A-30	4040-B	FOOTING DRAIN COLLECTOR, PERFORATED PVC, 8"
		1. REFER TO SUDAS DETAIL 4040.231
		2. THE SUBDRAIN SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ROADWAY PAVEMENT.
		3. REFER TO B SHEETS FOR TYPICAL SECTIONS.
2-A-31	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, PVC, 6"
		1. REFER TO SUDAS DETAIL 4040.232
2-A-32	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, PVC, 6"
		1. REFER TO SUDAS DETAIL 4040.233
2-A-33	5010-A-1	WATER MAIN, TRENCHED, PVC, 4"
2-A-34	5010-A-1	WATER MAIN, TRENCHED, PVC, 8"
2-A-35	5010-A-1	WATER MAIN, TRENCHED, PVC, 10"
		1. PIPE SHALL BE PVC C900 DR18, UNLESS OTHERWISE NOTED.
		2. ITEM INCLUDES CLEANING, TESTING AND DISINFECTION OF WATER MAINS PER SUDAS 5030
		3. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE CITY OF NEVADA PRIOR TO FLUSHING AND DISINFECTION.
		4. ITEM INCLUDES TRACER WIRE SYSTEM PER SUDAS FIGURE 5010.102 AND FINAL INSPECTION AND ELECTRICAL CONTINUITY VERIFICATION OF TRACER WIRE SYSTEM PER SUDAS SECTION 5010, 3.05
		5. INSTALL BEDDING AS CLASS P-2 PER SUDAS FIGURE 3010.104
		6. ABANDONMENT OF EXISTING WATER MAIN SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM INCLUDING THE ABANDONMENT OF EXISTING VALVES IN PAVEMENT. REMOVE EXISTING VALVE BOX LID AND FILL BOX COMPLETELY WITH LEAN CONCRETE.
2-A-36	5010-A-2	WATER MAIN, TRENCHLESS, PVC, RESTRAINED JOINT, 8"
2-A-37	5010-A-2	WATER MAIN, TRENCHLESS, PVC, RESTRAINED JOINT, 10"
		1. INSTALL TRENCHLESS WATER MAIN AS SHOWN ON THE MWM SHEETS
		2. RESTRAINED JOINT PIPE SHALL BE CERTA-LOK OR EAGLE-LOK WITH INTEGRAL JOINT RESTRAINT. EXTERNAL MECHANICAL DEVICES FOR JOINT RESTRAINT ARE NOT PERMITTED.
		3. PROVIDE ENGINEER WITH TRENCHLESS INSTALLATION PLAN INCLUDING DRILLING EQUIPMENT AND RECEIVING RAMP/ PIT LOCATION PRIOR TO INSTALLATION.
		4. PROVIDE TWO (2) TRACER WIRES.
		5. POTHOLING FOR CROSSING UTILITIES AND SERVICES INCIDENTAL TO THIS ITEM.
		6. TEMPORARY ADJUSTMENTS FOR EXISTING WATER SERVICES IN CONFLICT WITH INSTALLATION INCIDENTAL TO THIS ITEM.
2-A-38	5010-C-2	FITTINGS, DUCTILE IRON, MECHANICAL JOINT, BY WEIGHT
		1. FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT RESTRAINED WITH MEGALUG SERIES 2000PV OR 1100, OR APPROVED EQUAL.
		2. ALL FITTING ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION INCLUDING MEGALUGS ARE INCIDENTAL AND NOT INCLUDED IN THE BID WEIGHT. PAYMENT BY WEIGHT OF FITTINGS INSTALLED, BASED ON AWWA C153 STANDARD FITTING BODY WEIGHTS.
		3. POLY-WRAP IS REQUIRED AND IS INCIDENTAL.
		4. THRUST BLOCKS SHALL BE PROVIDED FOR ALL BENDS AND TEES AND CONSIDERED INCIDENTAL TO THIS ITEM.
2-A-39	5010-D	WATER SERVICE STUB
		1. REFER TO PLAN LOCATIONS IN THE MWM SHEETS. LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY.
		2. INCLUDES, BUT IS NOT LIMITED TO 1" CORPORATION, 1" CURB STOP, STOB BOX, TRENCH EXCAVATION, DEWATERING, FURNISHING BEDDING MATERIAL, INSTALLATION OF TRACER WIRE SYSTEM FOR NON-METALLIC SERVICE PIPE,

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2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES
AND GENERAL INFORMATION

SHEET NO.
C.02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		PLACING BEDDING AND BACKFILL MATERIAL, AND MISCELLANEOUS COUPLINGS AND FITTINGS FOR THE SERVICE PIPE AND TO
		REDUCE TO THE EXISTING LINE.
		3. SERVICE PIPE PAID FOR SEPARATELY BY LENGTH. SEE WATER SERVICE PIPE ITEM.
		4. UTILIZE FLARED CONNECTIONS.
		5. UTILIZE ARCH STYLE CURB STOP BOX
		6. CONTACT CITY OF NEVADA WATER DEPARTMENT FOR FURTHER REQUIREMENTS.
2-A-40	5010-E-1	WATER SERVICE PIPE, COPPER 1"
		1. REFER TO PLAN LOCATIONS IN THE MWM SHEETS. LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY.
		2. WATER SERVICE TO BE INSTALLED AT SIMILAR TIME AND LOCATION AS SANITARY SERVICES.
		3. THIS ITEM IS FOR SERVICE PIPE ONLY. SEE WATER SERVICE STUB ITEM FOR OTHER ITEMS
2-A-41	5020-A	VALVE, GATE, 8"
2-A-42	5020-A	VALVE, GATE, 10"
2-A-43	5020-A	VALVE, INSERTION, 4"-10"
		1. VALVES SHALL BE DUCTILE IRON MECHANICAL JOINT RESTRAINED WITH MEGALUG SERIES 2000PV, OR APPROVED EQUAL.
		2. ITEM INCLUDES ALL VALVE ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION INCLUDING MEGALUGS.
		3. POLY-WRAP IS REQUIRED AND IS INCIDENTAL
		4. PROVIDE VALVE BOX ADAPTER II, OR ENGINEER APPROVED EQUIVALENT, FOR ALL VALVE BOXES.
		5. INSERTION VALVES TO BE USED AS NEEDED.
2-A-44	5020-C	FIRE HYDRANT ASSEMBLY
		1. FIRE HYDRANT SHALL BE CLOW MEDALLION, MULLER CENTURION, OR WATEROUS WB-67-250
		2. HYDRANTS SHALL BE PROVIDED WITH 5" STORZ PUMPER NOZZLE AND TWO (2) 2-1/2" HOSE NOZZLES.
		3. ITEM INCLUDES ALL MATERIAL AND FITTING ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION.
		4. HYDRANT ASSEMBLY SHALL BE COMPLETELY RESTRAINED WITH RETAINING GLANDS OR WITH ANCHOR PIPE AND COUPLINGS IN
		ACCORDANCE WITH SUDAS 5020.201.
2-A-45	5020-J	FIRE HYDRANT ASSEMBLY REMOVAL
		1. INCLUDES AUXILIARY VALVE BOX REMOVAL
		2. HYDRANTS SHALL BE SALVAGED AND RETURNED TO THE CITY OF NEVADA AT THE CITY'S WATER TREATMENT PLANT:
		1231 W LINCOLN HWY
		NEVADA, IA 50201
2-A-46	6010-A	SANITARY SEWER MANHOLE, SW-301, 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. EXTERNAL CHIMNEY SEALS SHALL BE USED FOR MANHOLES
		NOT IN PAVEMENT. USE STRIKE I/I BARRIER OR EQUAL FOR MANHOLES IN PAVEMENT.
		4. MANHOLES SHALL NOT HAVE STEPS.
2-A-47	6010-A	STORM SEWER MANHOLE, SW-401, 48"
2-A-48	6010-A	STORM SEWER MANHOLE, SW-401, 60"
2-A-49	6010-A	STORM SEWER MANHOLE, SW-401, 72"
		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-50	6010-B	STORM SEWER INTAKE, SW-501
2-A-51	6010-B	STORM SEWER INTAKE, SW-503; MODIFIED
2-A-52	6010-B	STORM SEWER INTAKE, SW-505
2-A-53	6010-B	STORM SEWER INTAKE, SW-506
2-A-54	6010-B	STORM SEWER INTAKE, SW-512, 24"
2-A-55	6010-E-1	MANHOLE ADJUSTMENT, MINOR
		1. ADJUST EXISTING MANHOLE TO MATCH PROPOSED SURFACE ELEVATION
2-A-56	6010-G-2	CONNECTION TO EXISTING INTAKE
		1. CONNECT TO EXISTING SANITARY MANHOLE PER SUDAS 6010 3.05 AS INDICATED ON THE M SHEETS
2-A-57	6010-H-1	REMOVE MANHOLE
2-A-58	6010-H-2	REMOVE INTAKE
2-A-59	7010-A	PAVEMENT, PCC, 7"
2-A-60	7010-I	PCC PAVEMENT SAMPLES AND TESTING
2-A-61	7030-A-1	REMOVAL OF SIDEWALK
2-A-62	7030-A-3	REMOVAL OF DRIVEWAY
		1. INCLUDES ALL SAW CUTTING NECESSARY TO CREATE A CLEAN EDGE BETWEEN EXISTING AND PROPOSED SIDEWALKS
2-A-63	7030-E	SIDEWALK, PCC, 4"
2-A-64	7030-E	SIDEWALK, PCC, 6"
		1. REFER TO S SHEETS FOR SIDEWALK COMPLIANCE.
2-A-65	7030-G	DETECTABLE WARNING
		1. MATERIAL SHALL BE CAST IRON WITH NATURAL FINISH
2-A-66	7030-H-1	DRIVEWAY, PAVED, PCC, 6"
		1. ITEM INCLUDES THE SIDEWALK WITHIN THE DRIVEWAY AND ALLEYS
		2. EXCAVATION AND GRADING FOR DRIVEWAYS IS INCIDENTAL TO THIS ITEM.

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
2-A-67	7040-A	FULL DEPTH PATCHES, HMA, 8"
2-A-68	7040-H	PAVEMENT REMOVAL
		1. INCLUDES ALL SAW CUTTING NECESSARY TO CREATE A CLEAN EDGE BETWEEN EXISTING AND PROPOSED SIDEWALKS
2-A-69	7092-B	REMOVE AND REPLACE CURB AND GUTTER, PCC, 30"
2-A-70	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE
		1. LOCATIONS AS SHOWN ON K SHEETS
2-A-71	8020-M	GROOVES CUT FOR PAVEMENT MARKINGS
		1. GROOVES SHALL BE FOR PERMANENT MARKINGS ONLY IN THE TRAVELED PORTION, NOT THE PARKING AREAS.
2-A-72	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-73	9010-A	CONVENTIONAL SEEDING, FERTILIZING, AND MULCHING, TYPE 1
2-A-74	9040-A-1	SWPPP PREPARATION
2-A-75	9040-A-2	SWPPP MANAGEMENT
2-A-76	9040-F-1	WATTLE, 12"
2-A-77	9040-F-2	WATTLE, REMOVAL
		1. REFER TO F SHEETS FOR LOCATIONS.
2-A-78	9040-T-1	INLET PROTECTION DEVICE
2-A-79	9040-T-2	INLET PROTECTION DEVICE, MAINTENANCE AND REMOVAL
		1. FOR ALL STORM SEWER INTAKES. REFER TO F SHEETS FOR LOCATIONS.
2-A-80	9060-D	REMOVAL AND REINSTALLATION OF CHAIN LINK FENCE
2-A-81	11010-A	CONSTRUCTION SURVEY
2-A-82	11020-A	MOBILIZATION
		1. THIS ITEM WILL NOT BE MEASURED. THIS ITEM WILL BE PAID PER LUMP SUM.
2-A-83	11030-A	MAINTENANCE OF POSTAL SERVICE
2-A-84	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION
2-A-85	11050-A	CONCRETE WASHOUT
OPTION B - ASPHALT		
2-B-1	2010-D-3	TOPSOIL OFF-SITE
		1. USE TOPSOIL MEETING REQUIREMENTS OF SUDAS, SECTION 2010, 2.01, C.
		2. SUITABLE ON-SITE TOPSOIL MAY BE USED.
		3. TESTING OF TOPSOIL REQUIRED TO ENSURE REQUIREMENTS ARE MET
		4. STRIPPING AND REMOVAL OF EXISTING 8" OF TOPSOIL INCLUDED IN EXCAVATION, CLASS 13 ITEM.
2-B-2	2010-E	EXCAVATION, CLASS 13
		1. INCLUDES 1,106 CY REQUIRED FOR PROPOSED VOLUME OF 6" MODIFIED SUBBASE AND 1,209 CY OF ON-SITE TOPSOIL
		EXCAVATION.
		2. REMOVAL OF SIGNS SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. ALL SIGNS SHALL BE RETURNED TO CITY OF
		NEVADA FOR REINSTALLATION.
2-B-3	2010-G	SUBGRADE PREPARATION
		1. COMPACT ACCORDING TO SUDAS, SECTION 2010, 3.06, C.
2-B-4	2010-I	SUBGRADE TREATMENT, GEOGRID
2-B-5	2010-J	SUBBASE, MODIFIED 6"
2-B-6	2010-M	COMPACTION TESTING
2-B-7	2010-X	EXPLORATORY EXCAVATION
		1. MEASUREMENT SHALL BE FOR EACH HOUR OF EXPLORATORY EXCAVATION AS SHOWN ON THE PLANS OR APPROVED BY THE
		ENGINEER. PAYMENT SHALL BE CONSIDERED FULL COMPENSATION FOR EXPLORATORY EXCAVATION WITH A VACUUM TRENCH OR
		EXCAVATOR AND SUBSIDIARY LABOR AND MATERIALS. PAYMENT WILL BE MADE TO THE NEAREST ONE-HALF HOUR. LOCATING
		UTILITY LINES SHOWN ON THE PLANS AND AS MARKED BY IOWA ONE CALL WILL NOT BE COVERED UNDER THIS BID ITEM,
		UNLESS NOTED OTHERWISE ON THE PLANS, THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE MAJOR WORK BEING COMPLETED.
		2. ASSUMED FOUR HOURS PER EACH LOCATION IDENTIFIED IN THE PLANS.
2-B-8	3010-F	TRENCH COMPACTION TESTING
2-B-9	4010-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 4"
2-B-10	4010-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 10"
		1. PIPE SHALL BE SOLID WALL PVC, SDR 26 IN CONFORMANCE WITH SUDAS, SECTION 4010, 2.01, A.
		2. BYPASS PUMPING INCIDENTAL TO INSTALLATION OF SANITARY SEWER.
		3. TESTING IS INCIDENTAL AND WILL NOT BE PAID SEPARATELY. GRAVITY SANITARY SEWER INSPECTION SHALL BE PER
		SUDAS, SECTION 4060, 3.03; DEFLECTION TESTING PER SUDAS 4060, 3.05
		4. TEMPORARY CONNECTIONS TO EXISTING PIPE DUE TO CONSTRUCTION STAGING SHALL BE CONSIDERED INCIDENTAL TO THIS
		ITEM.
		5. SEE MSA.02 FOR EXPLORATORY EXCAVATION TO VERIFY EXISTING SANITARY SEWER SIZE AT BURIED DROP CONNECTION.

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Model: C.03
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2024 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES
AND GENERAL INFORMATION

SHEET NO.
C.03

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		ASSUMED TO BE 10" BUT MAY BE 8". VERIFY PRIOR TO ORDERING MATERIALS.
2-B-11	4010-E	SANITARY SEWER SERVICE STUB, PVC, 4"
2-B-12	4010-E	SANITARY SEWER SERVICE STUB, PVC, 6"
		1. QUANTITY IS TAKEN FROM SEWER MAIN TO ROW.
		2. INCLUDES REMOVAL OF EXISTING SERVICE LINE.
		3. TRENCH SHORING AND DEWATERING ARE INCIDENTAL TO THIS ITEM.
		4. BYPASS PUMPING MAY BE REQUIRED AND SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
		5. SANITARY SERVICES ARE SHOWN ON THE DRAWINGS WHERE KNOWN. SERVICE LINE LOCATIONS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. WHERE THESE EXISTING UTILITIES ARE NOT IDENTIFIED, CONTRACTOR SHALL FIELD VERIFY LOCATION. COORDINATE WITH CITY OF NEVADA.
2-B-13	4010-H	REMOVAL OF SANITARY SEWER, VCP, 4"
2-B-14	4010-H	REMOVAL OF SANITARY SEWER, VCP, 10"
		1. REFER TO C SHEETS FOR SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL TABULATION.
		2. BYPASS PUMPING INCIDENTAL TO REMOVAL OF SANITARY SEWER.
2-B-15	4020-A-1	STORM SEWER, TRENCHED, PVC, 8"
2-B-16	4020-A-1	STORM SEWER, TRENCHED, PVC, 12"
2-B-17	4020-A-1	STORM SEWER, TRENCHED, RCP, 15"
2-B-18	4020-A-1	STORM SEWER, TRENCHED, RCP, 18"
2-B-19	4020-A-1	STORM SEWER, TRENCHED, RCP, 24"
2-B-20	4020-A-1	STORM SEWER, TRENCHED, RCP, 30"
		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. GRANULAR BACKFILL IS INCIDENTAL.
		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 AND WHERE STORM SEWER IS BETWEEN 3' AND 10' FROM THE WATER MAIN.
		5. CONNECTIONS TO EXISTING PIPE/ STRUCTURES INCIDENTAL TO THIS ITEM. MAINTAIN AND RE-ESTABLISH ALL TIE-INS AND EXISTING CONNECTION TO EXISTING STRUCTURES AND PIPES UNLESS INDICATED OTHERWISE IN THE PLANS.
		6. TEMPORARY CONNECTIONS TO EXISTING DUE TO CONSTRUCTION STAGING INCIDENTAL TO THIS ITEM.
2-B-21	4020-D	REMOVAL OF STORM SEWER, PVC, 6"
2-B-22	4020-D	REMOVAL OF STORM SEWER, PVC, 8"
2-B-23	4020-D	REMOVAL OF STORM SEWER, VCP, 8"
2-B-24	4020-D	REMOVAL OF STORM SEWER, VCP, 10"
2-B-25	4020-D	REMOVAL OF STORM SEWER, VCP, 12"
2-B-26	4020-D	REMOVAL OF STORM SEWER, RCP, 15"
2-B-27	4020-D	REMOVAL OF STORM SEWER, VCP, 18"
2-B-28	4020-G	STORM SEWER ABANDONMENT, FILL AND PLUG
		1. REFER TO C SHEETS FOR SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL TABULATION.
		2. ABANDONMENT ITEM IS FOR IF STORM SEWER IS ENCOUNTERED DURING EXPLORATORY EXCAVATION. STORM SEWER SIZE ASSUMED TO BE APPROXIMATELY 12" DIA.
2-B-29	4040-A	SUBDRAIN, TYPE 1, PVC, 6"
2-B-30	4040-A	FOOTING DRAIN COLLECTOR, PERFORATED PVC, 8"
		1. REFER TO SUDAS DETAIL 4040.231
		2. THE SUBDRAIN SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ROADWAY PAVEMENT.
		3. REFER TO B SHEETS FOR TYPICAL SECTIONS.
2-B-31	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, PVC, 6"
		1. REFER TO SUDAS DETAIL 4040.232
2-B-32	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, PVC, 6"
		1. REFER TO SUDAS DETAIL 4040.233
2-B-33	5010-A-1	WATER MAIN, TRENCHED, PVC, 4"
2-B-34	5010-A-1	WATER MAIN, TRENCHED, PVC, 8"
2-B-35	5010-A-1	WATER MAIN, TRENCHED, PVC, 10"
		1. PIPE SHALL BE PVC C900 DR18, UNLESS OTHERWISE NOTED.
		2. ITEM INCLUDES CLEANING, TESTING AND DISINFECTION OF WATER MAINS PER SUDAS 5030
		3. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE CITY OF NEVADA PRIOR TO FLUSHING AND DISINFECTION.
		4. ITEM INCLUDES TRACER WIRE SYSTEM PER SUDAS FIGURE 5010.102 AND FINAL INSPECTION AND ELECTRICAL CONTINUITY VERIFICATION OF TRACER WIRE SYSTEM PER SUDAS SECTION 5010, 3.05
		5. INSTALL BEDDING AS CLASS P-2 PER SUDAS FIGURE 3010.104
		6. ABANDONMENT OF EXISTING WATER MAIN SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM INCLUDING THE ABANDONMENT OF EXISTING VALVES IN PAVEMENT. REMOVE EXISTING VALVE BOX LID AND FILL BOX COMPLETELY WITH LEAN CONCRETE.
2-B-36	5010-A-2	WATER MAIN, TRENCHLESS, PVC, RESTRAINED JOINT, 8"
2-B-37	5010-A-2	WATER MAIN, TRENCHLESS, PVC, RESTRAINED JOINT, 10"
		1. INSTALL TRENCHLESS WATER MAIN AS SHOWN ON THE MWM SHEETS
		2. RESTRAINED JOINT PIPE SHALL BE CERTA-LOK OR EAGLE-LOK WITH INTEGRAL JOINT RESTRAINT. EXTERNAL MECHANICAL DEVICES FOR JOINT RESTRAINT ARE NOT PERMITTED.
		3. PROVIDE ENGINEER WITH TRENCHLESS INSTALLATION PLAN INCLUDING DRILLING EQUIPMENT AND RECEIVING RAMP/ PIT LOCATION PRIOR TO INSTALLATION.
		4. PROVIDE TWO (2) TRACER WIRES.
		5. POTHOLING FOR CROSSING UTILITIES AND SERVICES INCIDENTAL TO THIS ITEM.
2-B-38	5010-C-2	FITTINGS, DUCTILE IRON, MECHANICAL JOINT, BY WEIGHT
		1. FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT RESTRAINED WITH MEGALUG SERIES 2000PV OR 1100, OR APPROVED EQUAL.
		2. ALL FITTING ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION INCLUDING MEGALUGS ARE INCIDENTAL AND NOT INCLUDED IN THE BID WEIGHT. PAYMENT BY WEIGHT OF FITTINGS INSTALLED, BASED ON AWWA C153 STANDARD FITTING BODY WEIGHTS.
		3. POLY-WRAP IS REQUIRED AND IS INCIDENTAL.
		4. THRUST BLOCKS SHALL BE PROVIDED FOR ALL BENDS AND TEES AND CONSIDERED INCIDENTAL TO THIS ITEM.
2-B-39	5010-D	WATER SERVICE STUB
		1. REFER TO PLAN LOCATIONS IN THE MWM SHEETS. LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY.
		2. INCLUDES, BUT IS NOT LIMITED TO 1" CORPORATION, 1" CURB STOP, STOB BOX, TRENCH EXCAVATION, DEWATERING, FURNISHING BEDDING MATERIAL, INSTALLATION OF TRACER WIRE SYSTEM FOR NON-METALLIC SERVICE PIPE, PLACING BEDDING AND BACKFILL MATERIAL, AND MISCELLANEOUS COUPLINGS AND FITTINGS FOR THE SERVICE PIPE AND TO REDUCE TO THE EXISTING LINE.
		3. SERVICE PIPE PAID FOR SEPARATELY BY LENGTH. SEE WATER SERVICE PIPE ITEM.
		4. UTILIZE FLARED CONNECTIONS.
		5. UTILIZE ARCH STYLE CURB STOP BOX
		6. CONTACT CITY OF NEVADA WATER DEPARTMENT FOR FURTHER REQUIREMENTS.
2-B-40	5010-E-1	WATER SERVICE PIPE, COPPER 1"
		1. REFER TO PLAN LOCATIONS IN THE MWM SHEETS. LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY.
		2. WATER SERVICE TO BE INSTALLED AT SIMILAR TIME AND LOCATION AS SANITARY SERVICES.
		3. THIS ITEM IS FOR SERVICE PIPE ONLY. SEE WATER SERVICE STUB ITEM FOR OTHER ITEMS
2-B-41	5020-A	VALVE, GATE, 8"
2-B-42	5020-A	VALVE, GATE, 10"
2-B-43	5020-A	VALVE, INSERTION, 4"-10"
		1. VALVES SHALL BE DUCTILE IRON MECHANICAL JOINT RESTRAINED WITH MEGALUG SERIES 2000PV, OR APPROVED EQUAL.
		2. ITEM INCLUDES ALL VALVE ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION INCLUDING MEGALUGS.
		3. POLY-WRAP IS REQUIRED AND IS INCIDENTAL
		4. PROVIDE VALVE BOX ADAPTER II, OR ENGINEER APPROVED EQUIVALENT, FOR ALL VALVE BOXES.
		5. INSERTION VALVES TO BE USED AS NEEDED
2-B-44	5020-C	FIRE HYDRANT ASSEMBLY
		1. FIRE HYDRANT SHALL BE CLOW MEDALLION, MULLER CENTURION, OR WATEROUS WB-67-250
		2. HYDRANTS SHALL BE PROVIDED WITH 5" STORZ PUMPER NOZZLE AND TWO (2) 2-1/2" HOSE NOZZLES.
		3. ITEM INCLUDES ALL MATERIAL AND FITTING ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION.
		4. HYDRANT ASSEMBLY SHALL BE COMPLETELY RESTRAINED WITH RETAINING GLANDS OR WITH ANCHOR PIPE AND COUPLINGS IN ACCORDANCE WITH SUDAS 5020.201.
2-B-45	5020-J	FIRE HYDRANT ASSEMBLY REMOVAL
		1. INCLUDES AUXILIARY VALVE BOX REMOVAL
		2. HYDRANTS SHALL BE SALVAGED AND RETURNED TO THE CITY OF NEVADA AT THE CITY'S WATER TREATMENT PLANT: 1231 W LINCOLN HWY NEVADA, IA 50201
2-B-46	6010-A	SANITARY SEWER MANHOLE, SW-301, 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. EXTERNAL CHIMNEY SEALS SHALL BE USED FOR MANHOLES NOT IN PAVEMENT. USE STRIKE I/I BARRIER OR EQUAL FOR MANHOLES IN PAVEMENT.
		4. MANHOLES SHALL NOT HAVE STEPS.
2-B-47	6010-A	STORM SEWER MANHOLE, SW-401, 48"
2-B-48	6010-A	STORM SEWER MANHOLE, SW-401, 60"
2-B-49	6010-A	STORM SEWER MANHOLE, SW-401, 72"
		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-50	6010-B	STORM SEWER INTAKE, SW-501
2-B-51	6010-B	STORM SEWER INTAKE, SW-503; MODIFIED
2-B-52	6010-B	STORM SEWER INTAKE, SW-505
2-B-53	6010-B	STORM SEWER INTAKE, SW-506
2-B-54	6010-B	STORM SEWER INTAKE, SW-512, 24"
2-B-55	6010-E-1	MANHOLE ADJUSTMENT, MINOR
		1. ADJUST EXISTING MANHOLE TO MATCH PROPOSED SURFACE ELEVATION
2-B-56	6010-G-2	CONNECTION TO EXISTING INTAKE
		1. CONNECT TO EXISTING SANITARY MANHOLE PER SUDAS 6010 3.05 AS INDICATED ON THE M SHEETS
2-B-57	6010-H-1	REMOVE MANHOLE
2-B-58	6010-H-2	REMOVE INTAKE
2-B-59	7010-E	CURB AND GUTTER, 30"
2-B-60	7020-B	PAVEMENT, HMA, 8"
		1. 1-1/2" HMA SURFACE COURSE, STANDARD TRAFFIC, 1/2" MIX
		1-1/2" HMA INTERMEDIATE COURSE, STANDARD TRAFFIC, 1/2" MIX
		5" HMA BASE COURSE, STANDARD TRAFFIC, 3/4" MIX
		PG 58-28S ASPHALT BINDER

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

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2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES
AND GENERAL INFORMATION

SHEET NO.
C.04

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
2-B-61	7020-I	HMA PAVEMENT SAMPLES AND TESTING
2-B-62	7030-A-1	REMOVAL OF SIDEWALK
2-B-63	7030-A-3	REMOVAL OF DRIVEWAY
		1. INCLUDES ALL SAW CUTTING NECESSARY TO CREATE A CLEAN EDGE BETWEEN EXISTING AND PROPOSED SIDEWALKS
2-B-64	7030-E	SIDEWALK, PCC, 4"
2-B-65	7030-E	SIDEWALK, PCC, 6"
		1. REFER TO S SHEETS FOR SIDEWALK COMPLIANCE.
2-B-66	7030-G	DETECTABLE WARNING
		1. MATERIAL SHALL BE CAST IRON WITH NATURAL FINISH
2-B-67	7030-H-1	DRIVEWAY, PAVED, PCC, 6"
		1. ITEM INCLUDES THE SIDEWALK WITHIN THE DRIVEWAY
		2. EXCAVATION AND GRADING FOR DRIVEWAYS IS INCIDENTAL TO THIS ITEM.
2-B-68	7040-A	FULL DEPTH PATCHES, HMA, 8"
2-B-69	7040-H	PAVEMENT REMOVAL
		1. INCLUDES ALL SAW CUTTING NECESSARY TO CREATE A CLEAN EDGE BETWEEN EXISTING AND PROPOSED SIDEWALKS
2-B-70	7092-B	REMOVE AND REPLACE CURB AND GUTTER, PCC, 30"
2-B-71	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE
		1. LOCATIONS AS SHOWN ON K SHEETS
2-B-72	8020-M	GROOVES CUT FOR PAVEMENT MARKINGS
		1. GROOVES SHALL BE FOR PERMANENT MARKINGS ONLY IN THE TRAVELED PORTION, NOT THE PARKING AREAS.
2-B-73	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-74	9010-A	CONVENTIONAL SEEDING, FERTILIZING, AND MULCHING, TYPE 1
2-B-75	9040-A-1	SWPPP PREPARATION
2-B-76	9040-A-2	SWPPP MANAGEMENT
2-B-77	9040-F-1	WATTLE, 12"
2-B-78	9040-F-2	WATTLE, REMOVAL
		1. REFER TO F SHEETS FOR LOCATIONS.
2-B-79	9040-T-1	INLET PROTECTION DEVICE
2-B-80	9040-T-2	INLET PROTECTION DEVICE, MAINTENANCE AND REMOVAL
		1. FOR ALL STORM SEWER INTAKES. REFER TO F SHEETS FOR LOCATIONS.
2-B-81	9060-D	REMOVAL AND REINSTALLATION OF CHAIN LINK FENCE
2-B-82	11010-A	CONSTRUCTION SURVEY
2-B-83	11020-A	MOBILIZATION
		1. THIS ITEM WILL NOT BE MEASURED. THIS ITEM WILL BE PAID PER LUMP SUM.
2-B-84	11030-A	MAINTENANCE OF POSTAL SERVICE
2-B-85	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION
2-B-86	11050-A	CONCRETE WASHOUT

110-08
04-17-18

REMOVAL OF CONCRETE DRIVES

* Not a Bid Item

Location		Area	Saw Cut*	Remarks
Station	Side	SY	LF	
302+55.52	RT	30.9		
305+48.81	LT	64.1		
306+37.77	RT	67.5		
306+64.17	LT	16.8		
102+36.60	RT	32.6		ALLEY
102+37.64	LT	30.1		ALLEY
101+58.27	LT	36.5		
102+96.00	RT	61.6		
202+35.28	LT	31.4		ALLEY
202+35.57	RT	27.0		ALLEY
202+58.67	RT	16.1		
205+15.87	RT	57.6		
206+07.74	RT	26.5		
206+18.71	LT	91.0		
206+29.24	RT	17.7		
206+98.33	RT	9.8		
402+47.40	LT	47.2		
TOTAL:		617.2		

110-4
MODIFIED

CURB REMOVAL AND REPLACEMENT

Begin Station	End Station	Side	Length	Remarks
			FT	
100+76.45	100+90.02	LT	13.6	
400+81.16	400+90.16	RT	9.0	
402+14.50	402+93.42	LT	78.9	
	TOTAL:		101.5	

110-5
10-20-15

SIDEWALK REMOVAL

* Not a bid item

Begin Station	End Station	Area	Saw Cut*	Remarks
		SY	LF	
300+30.92	300+54.16	19.2		
300+34.95	300+40.30	14.5		
300+85.37	301+07.31	22.7		
300+85.79	301+08.02	23.0		
301+60.59	301+70.59	4.5		
301+85.01	301+95.01	4.4		
302+16.19	302+35.21	8.5		
302+69.29	302+79.29	4.4		
302+81.83	302+91.83	4.4		
302+84.79	302+94.79	4.4		
302+99.90	303+09.90	7.5		
303+51.71	303+61.71	4.4		
303+66.97	303+76.97	4.4		
304+04.90	304+26.40	11.5		
304+10.15	304+26.40	7.3		
304+53.52	304+78.34	21.3		
304+53.45	304+80.11	23.2		
305+31.39	305+41.39	4.2		
305+81.71	305+91.71	4.4		
306+03.99	306+14.48	6.2		
306+10.84	306+26.22	7.2		
306+43.78	306+73.14	15.6		
306+49.74	306+59.73	4.3		
306+66.05	306+70.05	6.5		
307+18.59	307+28.59	4.6		
100+64.55	101+09.93	30.0		
101+50.94	101+67.03	9.3		
102+25.34	102+72.31	20.7		
102+23.16	102+50.04	11.9		
103+84.46	104+58.04	40.7		
103+84.46	104+08.41	23.7		
202+22.56	202+48.53	11.3		
202+78.26	202+83.42	5.3		
202+81.29	202+96.29	6.6		
203+24.65	203+46.12	9.9		
205+89.74	206+05.02	7.7		
206+35.00	206+50.32	8.3		
207+53.67	207+79.50	21.7		
207+58.79	207+65.27	9.1		
400+26.11	400+35.11	4.0		
400+69.16	400+93.16	10.6		
400+69.92	400+84.49	7.2		
402+55.63	402+76.51	22.0		
	TOTAL:	502.9		

110-1
04-16-13

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area	Saw Cut*	Remarks
				SY	LF	
300+06.24	301+12.72	BOTH	PCC/HMA	679.2		
304+03.81	304+83.88	BOTH	PCC/HMA	1308.3		
307+76.30	308+31.05	BOTH	PCC/HMA	1299.9		
100+90.02	103+95.11	BOTH	PCC/HMA	921.4		
200+89.08	203+82.48	BOTH	PCC/HMA	879.2		
204+63.50	207+54.49	BOTH	PCC/HMA	1012.0		
402+55.89	402+93.41	LEFT	PCC/HMA	42.1		
Total				6142.0		

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2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES
AND GENERAL INFORMATION

SHEET NO.
C.05

110-14
04-16-13

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

* Not a bid item

Location/Description	Sanitary or Storm Sewer	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe ≤ 36 inch diameter LF	Length of Pipe > 36 inch diameter LF	Fill Material* Flowable Mortar or CLSM CY	Remarks
100+71.36; 20.32' LT	Storm Sewer	Removal	166			18 IN. VCP
102+37.33; 23.47' LT	Storm Sewer	Removal	10			18 IN. VCP
103+37.33; 23.47' LT	Storm Sewer	Removal	181			12 IN. VCP
104+06.18; 37.27' LT	Storm Sewer	Removal	20			8 IN. VCP
104+04.22; 17.40' LT	Storm Sewer	Removal	28			8 IN. VCP
104+05.02; 17.85' RT	Storm Sewer	Removal	11			8 IN. VCP
104+12.30; 9.61' RT	Storm Sewer	Removal	33			8 IN. VCP
104+12.30; 9.61' RT	Storm Sewer	Removal	82			15 IN. RCP
104+45.41; 1.89' LT	Storm Sewer	Removal	35			12 IN. VCP
206+08.75; 12.95' LT	Storm Sewer	Removal	8			8 IN. PVC
206+08.75; 12.95' LT	Storm Sewer	Removal	26			6 IN. PVC
206+08.77; 13.30' RT	Storm Sewer	Removal	8			8 IN. PVC
300+29.11; 17.30' LT	Storm Sewer	Removal	56			12 IN. VCP
300+47.83; 19.59' RT	Storm Sewer	Removal	31			12 IN. VCP
300+70.28; 1.16' LT	Sanitary Sewer	Removal	54			4 IN. VCP
300+70.28; 1.16' LT	Sanitary Sewer	Removal	53			10 IN. VCP
300+70.28; 1.16' LT	Sanitary Sewer	Removal	375			10 IN. VCP
300+77.68; 10.31' RT	Storm Sewer	Removal	16			12 IN. VCP
300+90.39; 18.01' LT	Storm Sewer	Removal	31			12 IN. VCP
300+90.95; 18.99' RT	Storm Sewer	Removal	172			10 IN. VCP
302+49.59; 10.10' RT	Storm Sewer	Removal	14			8 IN. VCP
302+87.01; 5.37' RT	Storm Sewer	Removal	38			10 IN. VCP
302+89.32; 13.08' LT	Storm Sewer	Removal	19			12 IN. VCP
302+89.42; 13.06' RT	Storm Sewer	Removal	8			12 IN. VCP
302+89.42; 13.06' RT	Storm Sewer	Abandonment, Plug and Fill	392		4.1	ASSUMED 12" VCP; IF FOUND DURING EXPLORATORY EXCAVATION
304+45.08; 0.40' LT	Sanitary Sewer	Removal	370			10 IN. VCP
	TOTAL SANITARY SEWER PIPE REMOVAL, 4" VCP:		54			
	TOTAL SANITARY SEWER PIPE REMOVAL, 10" VCP:		798			
	TOTAL STORM SEWER PIPE REMOVAL, 6" PVC:		26			
	TOTAL STORM SEWER PIPE REMOVAL, 8" PVC:		16			
	TOTAL STORM SEWER PIPE REMOVAL, 8" VCP:		106			
	TOTAL STORM SEWER PIPE REMOVAL, 10" VCP:		210			
	TOTAL STORM SEWER PIPE REMOVAL, 12" VCP:		377			
	TOTAL STORM SEWER PIPE REMOVAL, 15" RCP:		82			
	TOTAL STORM SEWER PIPE REMOVAL, 18" VCP:		176			
	TOTAL STORM SEWER PIPE ABANDONMENT:		392			

108-13A
10-18-22

SAFETY CLOSURES

Refer to Section 2528 of the Standard Specifications

Station	Closure Type Road Qty.	Closure Type Hazard Qty.	Remarks
PHASE 1			
100+62.75	2		
304+77.94	1		
307+63.95	2		
PHASE 2			
100+90.02	1		
304+83.07	2		
307+72.82	2		
PHASE 3			
100+76.37	1		
203+68.79	2		
206+07.54	1		
206+21.01	1		
207+87.08	1		
301+31.88	1		
303+85.76	2		
304+96.65	2		
402+45.04	1		
402+54.72	1		
402+99.52	2		
403+13.84	1		
PHASE 4			
200+82.42	2		
203+82.40	2		
206+07.54	1		
297+34.73	1		9TH ST AT F AVE
300+00.52	2		
300+58.17	1		G AVE AT 8TH ST
300+68.60	2		
300+71.25	2		
300+79.84	1		G AVE AT 10TH ST
304+00.47	2		

110-15
04-16-13

REMOVAL OF INTAKES AND UTILITY ACCESSES

No.	Location/Description	Type	Remarks
RS-1	102+37.35; 23.48' LT	Utilities	STORM SEWER MANHOLE
RS-2	104+12.30; 9.61' RT	Utilities	STORM SEWER MANHOLE
RS-3	104+04.99; 17.82' RT	Intakes	
RS-4	104+45.55; 2.15' LT	Intakes	
RS-6	104+04.31; 17.48' LT	Intakes	
RS-7	204+20.80; 5.19' LT	Utilities	SANITARY SEWER MANHOLE
RS-8	206+08.69; 13.34' RT	Intakes	
RS-9	206+08.75; 12.95' LT	Intakes	
RS-10	300++29.11; 17.30 LT	Intakes	
RS-11	300+47.83; 19.59' RT	Intakes	
RS-12	300+77.80; 10.14' RT	Utilities	STORM SEWER MANHOLE
RS-13	300+85.33; 15.29' LT	Utilities	WATER METER PIT
RS-14	300+90.57; 18.41' LT	Intakes	
RS-15	300+90.91; 19.11' RT	Intakes	
RS-16	300+70.28; 1.16' LT	Utilities	SANITARY SEWER MANHOLE
RS-17	302+49.59; 10.10' RT	Utilities	STORM SEWER MANHOLE
RS-18	302+87.01; 5.37' RT	Utilities	STORM SEWER MANHOLE
RS-19	302+89.42; 13.06' RT	Intakes	
RS-20	302+89.32; 13.08' LT	Intakes	
	TOTAL INTAKE REMOVALS:	11	
	TOTAL MANHOLE REMOVALS:	8	

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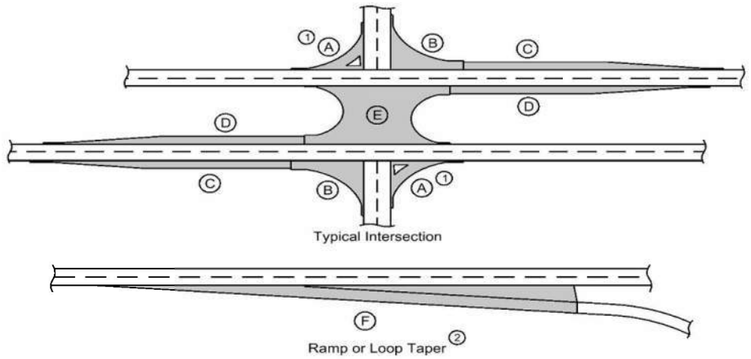
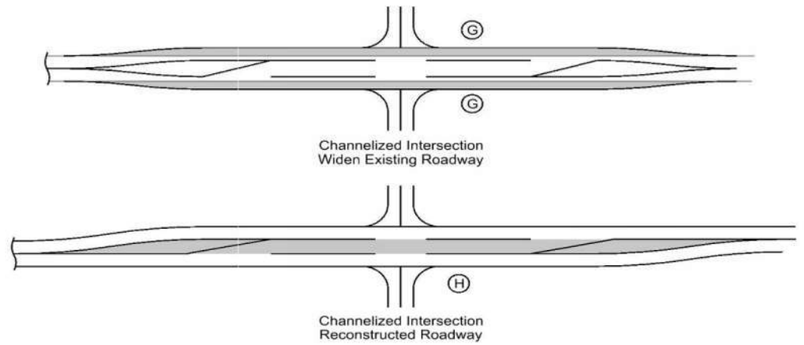
2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES
AND GENERAL INFORMATION

SHEET NO.
C.06

PCC PAVEMENT





(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.

(2) Refer to PV-410, PV-411, PV-412, and PV-414.

(3) Quantity includes Pavement Header.

Location				Mainline			Area (3)								Total Area By Pavement Thickness		Special Backfill	Modified Subbase	Granular Subbase	Remarks
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	A (1)	B	C	D	E	F (2)	G	H	SY					
				FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	7 IN	10½ IN	TONS	SY	SY	
I AVENUE	E/W	100+90.02	104+07.90	VAR.	317.9	846.6		85.9							932.6			1071.4		
H AVENUE	E/W	200+89.08	207+84.48	VAR.	695.4	1935.4		64.6							2000.1			2282.3		
9TH STREET	N/S	300+06.24	308+18.10	VAR.	811.9	3002.9		119.1					32.4		3154.4			3526.4		INCLUDES G AVE AND H AVE INTERSECTIONS AND PARKING AREA AT I AVENUE AND 9TH STREET
														TOTAL:	6087.0			6880.1		

HRG-100
MODIFIED

PAVEMENT PATCHING

Begin Station	End Station	Side	AREA SY	Remarks
402+55.90	402+93.43	LT	42.1	HMA
	TOTAL:		42.1	

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of Unclassified Pipe calculated is based on using Corrugated Metal Pipe.
(1) Refer to MI-210
(2) Refer to EW-501.
(3) Refer to EW-501 or EW-502.
*Predetermined for access point not constructed with this project.

Location		Type	Length of Opening (1)			W	PR (1) (2)	SR (2)	Pipe Culvert (3)					Aprons	Driveway Surface Area		Driveway Surfacing Material	Remarks
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	2" Dropped Curb	3" Dropped Curb				H	Size	Pipe Length	Lt.	Rt.		HMA	PCC		
			1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	No.	SY	SY	TON	
101+58.98	LT	C	2	20.0		20.0										40.1		
102+36.60	RT	B	1			17.0	8.0									34.6		
102+37.76	LT	B	1			15.0	8.0									29.8		
102+96.06	RT	C	1	54.0		24.0	15.0									62.0		
202+35.54	LT	B	1			16.0	8.0									30.1		
202+35.57	RT	B	1			16.0	8.0									30.8		
202+58.67	RT	C	2	18.0		18.0										21.3		
205+16.20	RT	C	2	31.0		24.0										51.8		
206+06.99	RT	B	1			14.0	8.0									26.2		
206+19.95	LT	B	1			30.0	20.0									90.9		
206+29.86	RT	C	2	16.0		11.0										19.9		
206+97.47	RT	C	2	9.0		9.0										11.0		
302+54.80	RT	C	1	26.0		16.0	5.0									31.2		
305+48.55	LT	C	2	34.0		34.0										60.1		
306+34.10	RT	B	1			16.0	VAR.									91.6		DOES NOT INCLUDE PARKING
306+39.51	LT	C	2	15.0		9.0										21.9		
402+47.27	LT	B	1			17.0	20.0									48.6		
														TOTAL:	0.0	701.8		

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NO.	DATE	BY	REVISION DESCRIPTION

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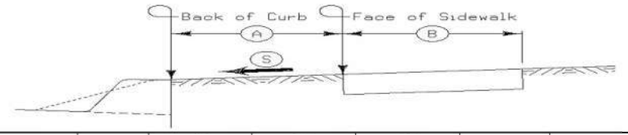
2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES
AND GENERAL INFORMATION

SHEET NO.
C.07

SIDEWALKS

See MI-220 and S Sheets



Road Identification	Station to Station		Side	A	B	S	4" PCC Sidewalk	6" PCC Sidewalk	8" PCC Sidewalk	10" PCC Sidewalk	Detectable Warnings	Remarks
				FT	FT	%	SY	SY	SY	SY	SF	
8TH/ I INTERSECTION	100+64.83	100+80.93	LT	VARIES	VARIES	N/A		9.4			8	RAMP
8TH/ I INTERSECTION	100+80.93	100+84.93	LT	VARIES	4.00	N/A		1.8				LANDING
8TH/ I INTERSECTION	100+80.93	100+84.93	LT	VARIES	VARIES	N/A		8.3			8	RAMP
8TH/ I INTERSECTION	100+80.79	100+84.93	LT	VARIES	VARIES	N/A	1.7					SIDEWALK
8TH/ I INTERSECTION	100+84.93	101+04.93	LT	VARIES	4.00	N/A	8.9					SIDEWALK
8TH/ I INTERSECTION	101+04.93	101+09.93	LT	16.75	VARIES	N/A	2.2					SIDEWALK
I AVENUE	101+51.08	101+67.03	RT	0.00	2.00	N/A	3.5					CARRIAGE WALK
I AVENUE	101+57.21	101+61.23	RT	2.00	15.30	N/A	6.8					CARRIAGE WALK
I AVENUE ALLEYWAY	102+23.16	102+28.16	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
I AVENUE ALLEYWAY	102+28.16	102+45.04	RT	16.80	5.00	N/A		9.4				SIDEWALK, ALLEY
I AVENUE ALLEYWAY	102+45.04	102+50.04	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
I AVENUE ALLEYWAY	102+25.34	102+30.34	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
I AVENUE ALLEYWAY	102+30.34	102+45.18	LT	16.20	5.00	N/A		8.2				SIDEWALK, ALLEY
I AVENUE ALLEYWAY	102+45.18	102+67.32	LT	16.20	5.00	N/A	12.3					SIDEWALK
I AVENUE ALLEYWAY	102+67.32	102+72.31	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ I INTERSECTION	103+84.46	103+89.46	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ I INTERSECTION	103+89.46	103+94.46	LT	VARIES	16.30	N/A		2.8				LANDING
9TH/ I INTERSECTION	103+89.46	103+94.46	LT	VARIES	5.00	N/A		10.8			10	RAMP
9TH/ I INTERSECTION	103+94.46	104+53.02	LT	VARIES	5.00	N/A	32.5					SIDEWALK
9TH/ I INTERSECTION	104+53.02	104+58.04	LT	VARIES	5.00	N/A	2.8					SIDEWALK
9TH/ I INTERSECTION	103+89.46	103+94.46	RT	VARIES	VARIES	N/A		10.4			10	RAMP
9TH/ I INTERSECTION	103+89.46	103+94.46	RT	VARIES	5.00	N/A		2.8				LANDING
9TH/ I INTERSECTION	103+84.46	103+89.46	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ I INTERSECTION	103+89.46	103+94.46	RT	VARIES	5.00	N/A	2.8					SIDEWALK
9TH/ I INTERSECTION	103+89.38	103+94.43	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
H AVENUE ALLEYWAY	202+22.56	202+27.56	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
H AVENUE ALLEYWAY	202+27.56	202+43.53	LT	15.63	5.00	N/A		8.9				SIDEWALK, ALLEY
H AVENUE ALLEYWAY	202+43.53	202+48.53	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
H AVENUE	202+80.42	202+83.42	RT	0.00	16.45	N/A	5.5					CARRIAGE WALK
H AVENUE	202+81.29	202+96.29	RT	16.45	4.00	N/A	6.6					SIDEWALK
H AVENUE	203+24.65	203+46.16	LT	0.00	2.00	N/A	4.8					CARRIAGE WALK
H AVENUE	203+32.74	203+35.71	LT	2.00	14.42	N/A	4.8					CARRIAGE WALK
H AVENUE	205+89.74	205+94.73	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
H AVENUE	205+94.73	205+99.73	LT	VARIES	VARIES	N/A		2.8				LANDING
H AVENUE	205+99.73	206+05.02	LT	VARIES	5.00	N/A		3.2			10	RAMP
H AVENUE	206+35.00	206+40.30	LT	VARIES	VARIES	N/A		3.2			10	RAMP
H AVENUE	206+40.30	206+45.30	LT	VARIES	5.00	N/A						LANDING
H AVENUE	206+45.30	206+50.30	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
10TH/ H INTERSECTION	207+60.00	207+65.00	RT	VARIES	VARIES	N/A		3.9			10	RAMP
10TH/ H INTERSECTION	207+60.00	207+65.00	RT	VARIES	5.00	N/A		2.8				LANDING
10TH/ H INTERSECTION	207+60.00	207+65.00	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
10TH/ H INTERSECTION	207+58.67	207+63.67	LT	VARIES	VARIES	N/A		10.0			10	RAMP
10TH/ H INTERSECTION	207+58.67	207+63.67	LT	VARIES	5.00	N/A		2.8				LANDING
10TH/ H INTERSECTION	207+53.67	207+58.67	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
10TH/ H INTERSECTION	207+58.67	207+63.67	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
10TH/ H INTERSECTION	207+63.67	207+79.09	LT	VARIES	VARIES	N/A		9.9			10	RAMP
10TH/ H INTERSECTION	208+06.91	208+21.61	LT	0.00	14.68	N/A		9.8			10	RAMP
10TH/ H INTERSECTION	208+21.61	208+26.61	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
10TH/ H INTERSECTION	208+21.61	208+26.61	LT	14.68	5.00	N/A		2.8				LANDING
10TH/ H INTERSECTION	208+21.61	208+26.61	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ G INTERSECTION	300+35.92	300+40.92	LT	VARIES	VARIES	N/A		7.7			10	RAMP
9TH/ G INTERSECTION	300+35.92	300+40.92	LT	VARIES	5.00	N/A		2.8				LANDING
9TH/ G INTERSECTION	300+30.92	300+35.92	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ G INTERSECTION	300+35.92	300+40.92	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ G INTERSECTION	300+40.92	300+53.34	LT	VARIES	VARIES	N/A		7.6			10	RAMP
9TH/ G INTERSECTION	300+36.22	300+41.22	RT	VARIES	VARIES	N/A		6.9			10	RAMP
9TH/ G INTERSECTION	300+36.22	300+41.22	RT	VARIES	5.00	N/A		2.8				LANDING
9TH/ G INTERSECTION	300+36.22	300+41.22	RT	VARIES	5.00	N/A	5.6					SIDEWALK
9TH/ G INTERSECTION	300+36.22	300+41.22	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ G INTERSECTION	300+41.22	300+53.34	RT	VARIES	VARIES	N/A		7.4			10	RAMP
9TH/ G INTERSECTION	300+85.42	300+97.31	LT	VARIES	VARIES	N/A		7.6			10	RAMP
9TH/ G INTERSECTION	300+97.31	301+02.31	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ G INTERSECTION	301+02.31	301+07.31	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ G INTERSECTION	300+97.31	301+02.31	LT	VARIES	5.00	N/A		2.8				LANDING
9TH/ G INTERSECTION	300+97.31	301+02.31	LT	VARIES	VARIES	N/A		10.1			10	RAMP
9TH/ G INTERSECTION	300+86.40	300+98.02	RT	VARIES	VARIES	N/A		7.2			10	RAMP
9TH/ G INTERSECTION	300+98.02	301+03.02	RT	VARIES	5.00	N/A		2.8				LANDING
9TH/ G INTERSECTION	300+98.02	301+03.02	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ G INTERSECTION	301+03.02	301+08.02	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ G INTERSECTION	300+98.02	301+03.02	RT	VARIES	VARIES	N/A		8.2			10	RAMP
9TH STREET	301+60.58	301+70.58	LT	18.68	4.00	N/A	4.5					SIDEWALK
9TH STREET	301+85.00	301+95.00	LT	18.28	4.00	N/A	4.4					SIDEWALK

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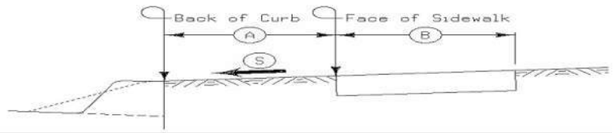
2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES
AND GENERAL INFORMATION

SIDEWALKS

See MI-220 and S Sheets



Road Identification	Station to Station		Side	A	B	S	4" PCC Sidewalk	6" PCC Sidewalk	8" PCC Sidewalk	10" PCC Sidewalk	Detectable Warnings	Remarks
				FT	FT	%	SY	SY	SY	SY	SF	
9th STREET	302+16.18	302+34.98	LT	18.28	4.00	N/A	8.4					SIDEWALK
9th STREET	302+69.28	302+79.28	LT	17.88	4.00	N/A	4.4					SIDEWALK
9th STREET	302+81.83	302+91.83	RT	16.85	4.00	N/A	4.3					SIDEWALK
9th STREET	302+84.78	302+94.78	LT	17.69	4.00	N/A	4.4					SIDEWALK
9th STREET	302+99.28	303+09.28	LT	17.59	4.00	N/A	4.4					SIDEWALK
9th STREET	302+99.92	303+09.92	RT	16.09	4.00	N/A	4.3					SIDEWALK
9th STREET	303+07.15	303+09.16	RT	0.00	16.08	N/A	3.6					CARRIAGE WALK
9th STREET	303+51.72	303+61.72	RT	16.13	4.00	N/A	4.3					SIDEWALK
9th STREET	303+66.96	303+76.96	LT	17.34	4.00	N/A	4.2					SIDEWALK
9TH/ H INTERSECTION	304+04.90	304+09.90	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ H INTERSECTION	304+09.90	304+14.90	RT	VARIES	5.00	N/A		2.8				LANDING
9TH/ H INTERSECTION	304+14.90	304+26.46	RT	VARIES	VARIES	N/A		7.2			10	RAMP
9TH/ H INTERSECTION	304+10.15	304+15.15	LT	VARIES	VARIES	N/A	2.4					SIDEWALK
9TH/ H INTERSECTION	304+15.15	304+20.15	LT	VARIES	5.00	N/A		2.8				LANDING
9TH/ H INTERSECTION	304+20.15	304+26.55	LT	VARIES	VARIES	N/A		3.8			10	RAMP
9TH/ H INTERSECTION	304+53.53	304+68.34	LT	VARIES	VARIES	N/A		9.3			10	RAMP
9TH/ H INTERSECTION	304+68.34	304+73.34	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ H INTERSECTION	304+73.34	304+78.34	LT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ H INTERSECTION	304+68.34	304+73.34	LT	VARIES	5.00	N/A		2.8				LANDING
9TH/ H INTERSECTION	304+68.34	304+73.34	LT	VARIES	VARIES	N/A		9.2			10	RAMP
9TH/ H INTERSECTION	304+53.31	304+70.11	RT	VARIES	VARIES	N/A		10.7			10	RAMP
9TH/ H INTERSECTION	304+70.11	304+75.11	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ H INTERSECTION	304+70.11	304+75.11	RT	VARIES	5.00	N/A		2.8				LANDING
9TH/ H INTERSECTION	304+75.11	304+80.11	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
9TH/ H INTERSECTION	304+70.11	304+75.11	RT	VARIES	VARIES	N/A		9.7			10	RAMP
9TH STREET	305+31.39	305+41.39	LT	15.66	4.00	N/A	4.3					SIDEWALK
9TH STREET	305+81.71	305+91.71	LT	15.26	4.00	N/A	4.4					SIDEWALK
9th STREET	306+04.13	306+14.31	LT	0.00	2.53	N/A	2.9					CARRIAGE WALK
9th STREET	306+08.51	306+11.02	LT	2.53	12.55	N/A	3.5					CARRIAGE WALK
9th STREET	306+10.84	306+15.84	RT	VARIES	VARIES	N/A	2.5					SIDEWALK
9th STREET	306+15.84	306+20.84	RT	VARIES	5.00	N/A		2.8				LANDING
9th STREET	306+20.84	306+26.22	RT	VARIES	VARIES	N/A		3.5			10	RAMP
9th STREET	306+43.33	306+63.14	RT	VARIES	VARIES	N/A		11.7			10	RAMP
9th STREET	306+63.14	306+68.14	RT	VARIES	5.00	N/A		2.8				LANDING
9th STREET	306+68.14	306+73.14	RT	VARIES	VARIES	N/A	2.8					SIDEWALK
9th STREET	306+49.70	306+59.70	LT	14.88	4.00	N/A	4.3					SIDEWALK
9th STREET	306+66.12	306+70.05	LT	0.00	14.71	N/A	6.4					CARRIAGE WALK
9th STREET	307+18.58	307+28.58	LT	14.27	4.00	N/A	4.5					SIDEWALK
10TH STREET	400+26.11	400+35.11	RT	15.96	4.00	N/A	4.0					SIDEWALK
10TH STREET	400+69.16	400+78.16	RT	15.71	4.00	N/A	4.0					SIDEWALK
10TH STREET	402+55.58	402+67.72	LT	VARIES	VARIES	N/A		8.4			12	RAMP
10TH STREET	402+67.72	402+72.72	LT	VARIES	5.00	N/A		3.3				LANDING
10TH STREET	402+72.72	402+76.51	LT	VARIES	4.00	N/A	2.4					SIDEWALK
10TH STREET	402+67.78	402+72.78	LT	VARIES	VARIES	N/A		8.2			10	RAMP
						TOTALS:	269.8	299.3			278	

190-62
10-15-13

EXISTING SIGNS TO BE REMOVED

SIGN NUMBER OR DESCRIPTION	LOCATION STATION	DIRECTION OF TRAVEL	TYPE 'A' SIGN ASSEMBLY (RA)	TYPE 'B' SIGN ASSEMBLY (RB)	REMOVE & REINSTALL EXISTING SIGNS TYPE 'A' (RR)	REMOVE & REINSTALL EXISTING SIGNS TYPE 'B' (RR)	CONCRETE FOUNDATION (RF)	SUPPORT STRUCTURE & FOUNDATION (RS)	APPLICABLE SIGNING NOTES	REMARKS
			EACH	EACH	EACH	EACH	EACH	EACH		
STOP SIGN	100+89.92 LT	WB	1		1					
NO PARKING	101+69.47 RT	EB	1		1					
NO PARKING	103+28.47 RT	EB	1		1					
STREET NAMES	104+00.33 LT		1		1					
STOP SIGN	200+89.38 LT	WB	1		1					
STRIAN CROSSING AHEAD	201+59.21 RT	EB	1		1					
END SCHOOL ZONE	203+05.90 LT	WB	1		1					
SPEED LIMIT W/ SCHOOL	203+07.51 RT	EB	1		1					
STOP SIGN	203+83.15 RT	EB	1		1					
STREET NAMES	203+97.86 RT		1		1					
STOP SIGN	204+58.53 LT	WB	1		1					
STOP SIGN	207+55.39 RT	EB	1		1					
STREET NAMES	300+91.23 LT		1		1					
NO PARKING	301+75.34 LT	SB	1		1					
STRIAN CROSSING AHEAD	301+97.97 RT	NB	1		1					
SPEED LIMIT W/ SCHOOL	303+31.95 RT	NB	1		1					
END SCHOOL ZONE	303+34.42 LT	SB	1		1					
NO PARKING	303+73.74 LT	SB	1		1					
STOP SIGN	304+09.73 RT	NB	1		1					
STOP SIGN	304+77.45 LT	SB	1		1					
NO PARKING	305+71.56 LT	SB	1		1					
NO PARKING	306+89.02 RT	NB	1		1					
NO PARKING	307+18.69 LT	SB	1		1					
NO PARKING	307+69.22 RT	NB	1		1					
		TOTAL:	24							

NOTES:
1. SALVAGE SIGNS TO BE REUSED. NEW INSTALLATION LOCATION IS SHOWN IN TABLE 190-61.

190-61
10-15-13

EXISTING SIGNS TO BE REINSTALLED

SIGN DESCRIPTION	DIRECTION OF TRAVEL	LOCATION STATION	NUMBER OF POSTS	SQUARE TUBE STEEL POSTS	WOOD POSTS 4" x 4" LF	WOOD POSTS 4" x 6" LF	INSTALLATION TYPE	INSTALLATION DIM 'X'	SEE SIGNING NOTES
STOP SIGN	WB	100+89.94; -16.73'	1.0	1.0			A		
NO PARKING	EB	101+69.48; 16.00'	1.0	1.0			A		
NO PARKING	EB	103+28.43; 16.00'	1.0	1.0			A		
STREET NAMES		103+98.49; -18.00'	1.0	1.0			A		
STOP SIGN	WB	200+89.28; -16.92'	1.0	1.0			A		
PEDESTRIAN CROSSING AHEAD	EB	201+59.21; 16.00'	1.0	1.0			A		
END SCHOOL ZONE	WB	203+06.04; -16.00'	1.0	1.0			A		
SPEED LIMIT W/ SCHOOL	EB	203+07.38; 16.00'	1.0	1.0			A		
STOP SIGN	EB	203+82.41; 16.00'	1.0	1.0			A		
STREET NAMES		203+97.98; 23.16'	1.0	1.0			A		
STOP SIGN	WB	204+59.26; -16.00'	1.0	1.0			A		
STOP SIGN	EB	207+54.53; 16.00'	1.0	1.0			A		
STREET NAMES		300+92.93; -26.44'	1.0	1.0			A		
NO PARKING	SB	301+75.34; -16.00'	1.0	1.0			A		
PEDESTRIAN CROSSING AHEAD	NB	301+98.93; 16.00'	1.0	1.0			A		
SPEED LIMIT W/ SCHOOL	NB	303+32.02; 16.00'	1.0	1.0			A		
END SCHOOL ZONE	SB	303+34.42; -16.00'	1.0	1.0			A		
NO PARKING	SB	303+73.76; -16.00'	1.0	1.0			A		
STOP SIGN	NB	304+01.89; 16.00'	1.0	1.0			A		
STOP SIGN	SB	304+78.38; -16.00'	1.0	1.0			A		
NO PARKING	SB	305+71.56; -16.00'	1.0	1.0			A		
NO PARKING	NB	306+89.02; 30.00'	1.0	1.0			A		
NO PARKING	SB	307+18.71; -16.00'	1.0	1.0			A		
NO PARKING	NB	307+69.12; 30.00'	1.0	1.0			A		
		TOTAL:	24.0						

NOTES:
1. SIGNS TO BE REINSTALLED BY CITY OF NEVADA STAFF. CONTRACTOR TO COORDINATE.

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
DCY4: Double Centerline (Yellow) @ 2.00
NPY4: No Passing Zone Line (Yellow) @ 1.25
BLW4: Broken Lane Line (White) @ 0.25
ELW4: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 1.00
SLW2: Stop Line (White) @ 6.00
SLW4: Solid Lane Line (White) @ 1.00
CHY8: Channelizing Line (Yellow) @ 2.00
CLW6: Crosswalk Line (White) @ 3.00
CBW6: Crosswalk Bar (White) @ 15.00
STW6: Standard Curb 6" (White) @ 3.03

Location: Road ID	Station to Station		Dir. of Travel	Marking Type	Side L	Side C	Side R	BCY4* STA	DCY4 STA	NPY4** STA	BLW4 STA	ELW4 STA	ELY4 STA	SLW2 STA	SLW4 STA	CHY8 STA	CLW6 STA	CBW6 STA	STW6 STA				Remarks
I AVENUE	100+79.79	100+90.02	BOTH	Durable Paint	X	X	X							0.13			0.59						
I AVENUE	103+82.69	103+95.40	BOTH	Durable Paint	X	X	X							0.13			0.56						
H AVENUE	200+89.08	200+89.08	WB	Durable Paint	X									0.13									
H AVENUE	203+82.41	204+59.26	BOTH	Durable Paint	X	X	X							0.26			1.15						
H AVENUE	207+54.51	207+65.28	BOTH	Durable Paint	X	X	X							0.13			0.58						
9TH STREET	300+34.85	301+03.87	BOTH	Durable Paint	X	X	X										2.70						
9TH STREET	304+01.94	304+78.38	BOTH	Durable Paint	X	X	X							0.25			0.56						
10TH STREET	306+25.63	306+45.76	BOTH	Durable Paint			X										0.38						
10TH STREET	306+56.98	308+35.53	BOTH	Durable Paint			X								4.31								
10TH STREET	400+82.41	400+89.16	BOTH	Durable Paint	X	X	X										0.57						
10TH STREET	402+38.63	402+57.18	BOTH	Durable Paint	X												0.35						
				Factored Total: Durable Paint				-	-	-	-	-	-	6.15	4.31	-	22.33	-	-				
				Bid Quantity: Painted Pavement Markings, Durable				32.78															

PlotDrvr: pdf_bw_no_level.pltcfg
Model: C.10

PenTbl: hrg.tbl
Last Saved: 1/2/2024

DRAWN BY:	HCM\ CBM	JOB DATE:	2023
APPROVED:	HRG_PM	JOB NUMBER:	2303452
CAD DATE:	1/2/2024	1:28:27 PM	
CAD FILE:	...\CAD\Sheets\SHT_2303452_C01.dgn		

NO.	DATE	BY	REVISION DESCRIPTION

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2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES
AND GENERAL INFORMATION

SHEET NO.
C.10

MODIFIED

SANITARY SEWER

* Bid Item

INTAKES AND UTILITY ACCESSES

No.	Location Station	Type or Standard Road Plan*	RIM / FG Elev.	Bottom Well Elev.	Notes
SAN-1	300+70.28, 1.16' LT	SW-301	1001.12	991.62	48" DIA. MANHOLE
SAN-2	304+45.08, 0.30' LT	SW-301	1000.17	989.47	48" DIA. MANHOLE
SAN-3	308+14.93, 2.99' RT	EXISTING	996.89		MANHOLE ADJUSTMENT (RASIE BY APPROX. 1.7")

NOTES:
1. CONNECTION TO EXISTING SANITARY SEWER MAIN TO BE INCIDENTAL.

PIPES

Design Length, Slope and Flowlines are calculated center of structure to center of structure along CL of pipe.

Line Number	Intake/Utility Access No. From	To	MATERIAL	Pipe Diameter Inches	Bid Length* Feet	Design Length Feet	Slope %	Flow Lines Inlet Elevation	Flow Lines Outlet Elevation	Granular CY	Pipe Plan Sheet No	Notes
S-1	EXIST	SAN-1	PVC	10	54	54.00	M/E	M/E	993.82			MATCH EXISTING PIPE ELEVATION AT CONNECTION
S-2	SAN-1	SAN-2	PVC	10	375	374.79	0.65%	992.50	990.07			
S-3	SAN-2	SAN-3	PVC	10	370	369.86	0.40%	989.97	988.49			CONNECT TO EXISTING PIPE BEFORE EXISTING EXTERNAL DROP CONNECTION
S-4	EXIST	SAN-1	PVC	4	54	53.35	M/E	M/E	994.12			MATCH EXISTING PIPE ELEVATION AT CONNECTION
PIPE LENGTH TOTALS (LF):				4" PVC	54							
				10" PVC	799							

HRG-9
MODIFIED

SANITARY SEWER SERVICES

Number	Location	Type	Pipe Diameter (Inches)	Length of Line (Feet)	Note
9TH STREET					
SS-1	300+77.68 LT	PVC		49	
SS-2	300+79.78 LT	PVC		49	
SS-3	301+65.49 LT	PVC		34	704 9TH ST
SS-4	301+89.89 LT	PVC		34	712 9TH ST
SS-5	302+21.09 LT	PVC		34	712 9TH ST
SS-6	302+29.90 LT	PVC		34	720 9TH ST
SS-7	302+74.20 LT	PVC		34	720 9TH ST
SS-8	302+89.69 LT	PVC		34	728 9TH ST
SS-9	303+04.19 LT	PVC		34	728 9TH ST
SS-10	303+04.19 RT	PVC		36	727 9TH ST
SS-11	303+56.81 RT	PVC		36	914 H AVE
SS-12	303+71.85 LT	PVC		34	738 9TH ST
SS-13	304+13.63 RT	PVC		151	916 H AVE
SS-14	304+58.59 LT	PVC		148	829 H AVE
SS-15	305+36.10 LT	PVC		35	804 9TH ST
SS-16	305+86.42 LT	PVC		35	818 9TH ST
SS-17	306+54.44 LT	PVC		35	824 9TH ST
			TOTAL :	846	

NOTES:
1. FIELD VERIFY LOCATIONS.

PlotDrvr: pdf_bw_no_level.pltcfg
Model: C.11

PenTbl: hrg.tbl
Last Saved: 1/2/2024

DRAWN BY:	HCM\ CBM	JOB DATE:	2023
APPROVED:	HRG_PM	JOB NUMBER:	2303452
CAD DATE:	1/2/2024	1:28:38 PM	
CAD FILE:	...\CAD\Sheets\SHT_2303452_C01.dgn		

NO.	DATE	BY	REVISION DESCRIPTION

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2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES
AND GENERAL INFORMATION

SHEET NO.
C.11

HRG-32
MODIFIED

WATER MAIN EXTENSION TABULATION

Number	Start Station	End Station	Type	Pipe Diameter (Inches)	Length of line (Feet)	Note
W-1	100+77.47	100+99.54	PVC	10	22.1	
W-2	100+99.54	103+73.32	PVC	10	273.8	TRENCHLESS CONSTRUCTION
W-3	103+73.32	103+99.39	PVC	10	26	
W-4	204+02.41	207+68.83	PVC	10	366.413	
W-5	300+08.01	300+10.95	PVC	4	2.948	
W-6	300+10.95	300+79.48	PVC	8	69.988	
W-7	300+84.46	300+84.48	PVC	4	2.41	
W-8	300+84.48	300+85.40	PVC	8	110.379	
W-9	300+85.40	300+85.42	PVC	4	2.558	
W-10	300+79.48	301+76.37	PVC	8	92.8	
W-11	301+76.37	303+49.29	PVC	8	173	TRENCHLESS CONSTRUCTION
W-12	303+49.29	304+53.61	PVC	8	108.1	
W-13	304+53.61	304+80.04	PVC	10	22.6	
W-14	304+80.04	307+21.43	PVC	10	241.4	TRENCHLESS CONSTRUCTION
W-15	307+21.43	308+55.84	PVC	10	139.7	
W-16	308+55.84	308+58.84	PVC	4	10.803	
W-17	308+56.35	308+61.11	PVC	4	4.76	
W-18	400+10.07	400+13.14	PVC	4	3.075	
W-19	400+13.14	400+66.83	PVC	8	8.925	
W-20	400+66.83	402+65.98	PVC	10	201.592	
W-21	402+65.98	402+65.93	PVC	10	19.626	
W-22	402+65.92	402+88.83	PVC	10	22.883	
W-23	402+88.83	402+92.32	PVC	4	3.492	
				TOTAL 4" DIA. PVC:	30	
				TOTAL 8" DIA. PVC:	390	
				TOTAL 10" DIA. PVC:	821	
				TOTAL 8" DIA. PVC, TRENCHLESS:	173	
				TOTAL 10" DIA. PVC, TRENCHLESS:	515	

HRG-30
MODIFIED

WATER SERVICES

No.	Location Station	Offset	Type	Pipe Diameter (inches)	Length of Line (feet)
WS-1	202+93.82	23.17' LT	COPPER	1"	113.9
WS-2	205+60.68	34.74' RT	COPPER	1"	51.5
WS-3	206+64.48	26.14' RT	COPPER	1"	42.7
WS-4	208+22.65	22.38' RT	COPPER	1"	54.2
WS-5	208+22.28	20.34' LT	COPPER	1"	53.4
WS-6	302+15.87	30.34' LT	COPPER	1"	11.6
WS-7	302+72.75	29.90' LT	COPPER	1"	11.2
WS-8	302+86.83	33.34' RT	COPPER	1"	52.1
WS-9	302+87.15	29.73' LT	COPPER	1"	11.0
WS-10	303+60.15	28.15' RT	COPPER	1"	46.9
WS-11	303+70.20	29.33' LT	COPPER	1"	10.6
WS-12	305+33.64	28.67' LT	COPPER	1"	10.2
WS-13	305+83.63	27.42' LT	COPPER	1"	8.9
WS-14	306+49.40	27.07' LT	COPPER	1"	8.9
WS-15	307+23.59	31.02' LT	COPPER	1"	13.1
		SERVICE STUB			500.1

NOTES:

1. FIELD VERIFY AND MATCH EXISTING WATER SERVICE SIZE AND LOCATION.

HRG-34
MODIFIED

WATER FITTING TABULATION

Number	Station	Offset	Type	Weight (Pounds)	Note
WF-1	100+77.47	-27.755	10 IN. DIA. SLEEVE	45	1
WF-2	100+99.54	-27.7	10 IN. DIA. SLEEVE	45	1
WF-3	103+73.32	-27	10 IN. DIA. SLEEVE	45	1
WF-4	103+99.39	-26.9	10 IN. X 10 IN. DIA. TEE	114	1, 4
WF-5	308+55.82	-21.294	10 IN. X 4 IN. DIA. REDUCER	46	1
WF-6	308+58.84	-21.294	4 IN. DIA. 90 DEG BEND	25	1, 4, 3
WF-7	308+58.84	-13.492	4 IN. X 4 IN. DIA TEE	32	1, 4
WF-8	308+56.93	-13.486	4 IN. DIA. CAP	9	1
WF-9	308+53.96	-13.478	4 IN. DIA. CAP	9	1
WF-10	204+02.41	-17.452	10 IN. X 10 IN. DIA. TEE	114	1, 4
WF-11	207+68.83	-16.164	10 IN. X 10 IN. DIA. TEE	114	1, 4
WF-12	300+08.01	-14.104	4 IN. DIA. SLEEVE	15	1
WF-13	300+10.95	-14.129	4 IN. X 8 IN. DIA. REDUCER	30	1
WF-14	300+20.01	-14.207	8 IN. DIA. 45 DEG BEND	46	1, 4, 3
WF-15	300+23.38	-17.659	8 IN. DIA. 45 DEG BEND	46	1, 4, 3
WF-16	300+84.46	-55.77	4 IN. DIA. SLEEVE	15	1
WF-17	300+84.48	-53.36	4 IN. X 8 IN. DIA. REDUCER	30	1
WF-18	300+84.51	-50.77	8 IN. DIA. 45 DEG BEND	46	1, 4, 3
WF-19	300+79.25	-45.555	8 IN. DIA. 45 DEG BEND	46	1, 4, 3
WF-20	300+79.48	-18.304	8 IN. X 8 IN. DIA. CROSS	105	1
WF-21	300+80.03	44.928	8 IN. DIA. 45 DEG BEND	46	1, 4, 3
WF-22	300+85.82	50.199	8 IN. DIA. 45 DEG BEND	46	1, 4, 3
WF-23	300+85.55	52.587	4 IN. X 8 IN. DIA. REDUCER	30	1
WF-24	300+85.42	55.127	4 IN. DIA. SLEEVE	15	1
WF-25	301+76.37	-18.7	8 IN. DIA. SLEEVE	31	1
WF-26	303+49.29	-18.7	8 IN. DIA. SLEEVE	31	1
WF-27	304+53.61	-18.694	8 IN. X 10 IN. DIA. REDUCER	47	1
WF-28	304+80.04	-18.6	10 IN. DIA. SLEEVE	45	1
WF-29	307+21.43	-18	10 IN. DIA. SLEEVE	45	1
WF-30	307+68.45	-17.846	10 IN. DIA. 45 DEG BEND	70	1, 4, 3
WF-31	307+71.91	-21.294	10 IN. DIA. 45 DEG BEND	70	1, 4, 3
WF-32	400+10.07	-9.853	4 IN. DIA. SLEEVE	15	1
WF-33	400+13.14	-9.841	4 IN. X 8 IN. DIA. REDUCER	30	1
WF-34	400+22.07	-9.809	8 IN. DIA. 45 DEG BEND	46	1, 4, 3
WF-35	400+36.77	-24.381	8 IN. DIA. 45 DEG BEND	46	1, 4, 3
WF-36	400+66.83	-24.271	8 IN. X 10 IN. DIA. REDUCER	47	1
WF-37	400+86.36	-24.199	10 IN. DIA. 45 DEG BEND	70	1, 4, 3
WF-38	400+89.37	-27.188	10 IN. DIA. 45 DEG BEND	70	1, 4, 3
WF-39	401+00.46	-27.147	10 IN. DIA. 45 DEG BEND	70	1, 4, 3
WF-40	401+03.45	-24.136	10 IN. DIA. 45 DEG BEND	70	1, 4, 3
WF-41	402+65.98	-23.541	10 IN. DIA. 90 DEG BEND	83	1, 4, 3
WF-42	402+65.92	-8.894	10 IN. X 10 IN. DIA. TEE	114	1, 4
WF-43	402+65.90	-3.915	10 IN. DIA. SLEEVE	45	1
WF-44	402+88.83	-8.831	10 IN. X 4 IN. DIA. REDUCER	46	1
WF-45	402+92.32	-8.818	4 IN. DIA. SLEEVE	15	1
WF-46	204+25.37		10 IN. DIA. 45 DEG BEND	70	1, 4, 2
WF-47	204+33.30		10 IN. DIA. 45 DEG BEND	70	1, 4, 2
WF-48	204+38.46		10 IN. DIA. 45 DEG BEND	70	1, 4, 2
WF-49	204+46.53		10 IN. DIA. 45 DEG BEND	70	1, 4, 2
			TOTAL FITTINGS, BY WEIGHT, DUCTILE IRON:	2500	

NOTES:

1. PAYMENT BASED ON WEIGHT SHOWN IN TABLE REGARDLESS OF MANUFACTURER
2. VERTICAL BEND.
3. HORIZONTAL BEND.
4. THRUST BLOCKS OR MEGALUG (RETAINER GLAND) REQUIRED.

HRG-31
MODIFIED

FIRE HYDRANTS

Number	Location Station	Offset	Type	Note
WH-1	103+81.10	-18.0		
WH-2	300+17.01	-22.0		
WH-3	304+77.08	-25.0		
WH-4	400+19.05	-19.8		
WH-5	402+79.78	-18.5		
	TOTAL:	5.0		

HRG-37
MODIFIED

FIRE HYDRANT REMOVAL

Number	Location Station	Offset	Type	Note
WHR-1	103+98.44	-24.6		
WHR-2	300+91.20	-39.2		
WHR-3	400+93.32	-21.7		
WHR-4	402+76.61	-19.9		
	TOTAL:	4.0		

HRG-35
MODIFIED

WATER VALVE TABULATION

Number	Station	Offset	Type	Quantity	Note
WV-1	100+87.91	-27.7	10 IN. GATE VALVE	1	
WV-2	103+95.84	-26.898	10 IN. GATE VALVE	1	
WV-3	308+52.84	-21.294	10 IN. GATE VALVE	1	
WV-4	204+05.95	-17.443	10 IN. GATE VALVE	1	
WV-5	300+14.01	-14.156	8 IN. GATE VALVE	1	
WV-6	300+79.57	-21.177	8 IN. GATE VALVE	1	
WV-7	300+79.51	-15.781	8 IN. GATE VALVE	1	
WV-8	300+82.64	-18.335	8 IN. GATE VALVE	1	
WV-9	304+49.10	-18.706	8 IN. GATE VALVE	1	
WV-10	304+66.00	-18.66	10 IN. GATE VALVE	1	
WV-11	308+32.80	-21.294	10 IN. GATE VALVE	1	
WV-12	400+16.07	-9.831	8 IN. GATE VALVE	1	
WV-13	400+80.20	-24.222	8 IN. GATE VALVE	1	
WV-14	402+62.28	-23.554	10 IN. GATE VALVE	1	
WV-15	402+65.93	-11.983	10 IN. GATE VALVE	1	
WV-16	402+71.74	-8.893	10 IN. GATE VALVE	1	
			TOTAL, 8 IN. GATE VALVE, DIP:	7	
			TOTAL, 10 IN. GATE VALVE, DIP:	9	

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2024 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES AND GENERAL INFORMATION

SHEET NO.
C.12

STORM SEWER

* Bid Item

INTAKES AND UTILITY ACCESSES

No.	Location Station	Type or Standard Road Plan*	RIM Elev.	FG Elev.	Bottom Well Elev.	Notes
S100	307+70.05,-13.00	SW-505		997.37	991.99	
S101	104+08.64,15.50	SW-401 (60")	996.95		986.98	
S102	104+09.18,-5.58	SW-505		995.98	991.74	
S110	102+57.61,13.00	SW-506		993.44	985.31	
S111	102+57.60,-13.00	SW-506		993.43	985.25	
S112	102+37.63,-15.00	SW-401 (48")	993.18		985.34	
S113	102+59.24,-38	SW-512 (24")	993.46		987.65	
S120	101+09.24,13.00	SW-506		990.84	984.63	
S121	101+00.67,-17.50	SW-401 (72")	991.24		984.53	
S210	203+76.14,13.00	SW-505		999.81	997.05	
S211	203+76.17,-13.00	SW-505		999.80	996.96	
S220	204+35.96,-12.00	SW-401 (48")	999.87		994.24	
S230	206+08.83,-13.00	SW-505		998.36	995.16	
S240	206+09.03,13.00	SW-505		998.32	995.75	
S300	308+01.70,15.00	SW-401 (60")	997.16		989.26	
S301	307+34.37,15.50	SW-401 (48")	997.84		989.91	
S310	306+05.23,13.00	SW-506		999.19	992.26	
S311	306+05.22,-13.00	SW-505		999.17	995.21	
S320	302+87.31,13.00	SW-506		999.05	995.22	
S321	302+87.28,-13.00	SW-505		999.03	995.41	
S340	300+54.79,42.89	SW-501		1000.63	996.59	
S341	300+85.85,42.50	SW-501		1000.66	997.90	
S350	300+26.44,15.53	SW-503; MODIFIED		1000.57	994.06	SEE B SHEET DETAIL
S351	300+26.12,-15.51	SW-501		1000.55	996.26	
S370	300+85.33,-42.75	SW-501		1000.37	997.62	
S371	300+54.14,-43.25	SW-501		1000.64	997.46	
S380	300+55.76,16.00	SW-401 (48")	1000.87		994.25	
S390	302+37.20,16.00	SW-401 (48")	999.76		994.27	
EX-W	100+72.69,-21.56			990.17		EXISTING STRUCTURE
EX-N	104+06.19, -37.35		993.20			EXISTING STRUCTURE

STORM STRUCTURE TOTALS:	
SW-401 (48")	5
SW-401 (60")	2
SW-401 (72")	1
SW-501	5
SW-505	8
SW-506	5
SW-512	1
SW-503; MODIFIED	1

NOTES:

1. EXISTING CONNECTIONS ARE APPROXIMATE. FIELD VERIFY DEPTH / LOCATION

PIPES

Design Length, Slope and Flowlines are calculated center of structure to center of structure along CL of pipe.

Line Number	Intake/Utility Access No. From	To	Class	Pipe Diameter Inches	Bid Length* Feet	Design Length Feet	Slope %	Flow Lines Inlet Elevation	Flow Lines Outlet Elevation	Granular Backfill CY	Pipe Profile Sheet No.	Notes
P100	S100	S101	III	15	24	20.41	5.34%	992.49	991.40			UTLIZE GASKETS MANUFACTURED PER ASTM C 443
P101	S101	S110	III	24	152	148.87	1.12%	987.48	985.81			
P102	S102	S101	III	15	24	17.87	5.48%	992.24	991.26			UTLIZE GASKETS MANUFACTURED PER ASTM C 443
P110	S110	S120	III	24	152	145.36	0.28%	985.64	985.23			
P111	S111	S110	III	18	24	22.00	0.50%	985.75	985.64			
P112	S112	S111	III	18	24	18.31	0.49%	985.84	985.75			
P113	S113	S111	III	15	24	20.00	5.00%	988.15	987.15			
P120	S120	S121	III	30	32	26.76	0.41%	985.13	985.02			
P121	S121	EX-W	III	30	32	25.27	0.40%	985.02	984.92			CONNECT TO EXISTING STRUCTURE
P210	S210	S211	III	15	24	22.00	0.41%	997.55	997.46			
P211	S211	S220	III	15	56	54.44	4.45%	997.46	995.04			UTLIZE GASKETS MANUFACTURED PER ASTM C 443
P220	S220	S310	III	18	152	148.02	1.00%	994.74	993.26			
P230	S240	S230	III	15	24	22.00	0.41%	995.75	995.66			
P231	S230	S220	III	15	168	167.54	0.40%	995.66	994.99			UTLIZE GASKETS MANUFACTURED PER ASTM C 443
P300	S300	S101	III	24	24	22.59	0.49%	989.76	989.65			
P301	S301	S300	III	24	64	62.83	1.03%	990.41	989.76			
P310	S310	S301	III	24	128	127.48	1.84%	992.76	990.41			
P311	S311	S310	III	15	24	22.00	5.00%	995.71	994.61			
P320	S320	S220	III	18	168	162.94	0.60%	995.72	994.74			
P321	S321	S320	III	15	24	22.00	0.41%	995.91	995.82			
P340	S340	S380	III	15	24	23.38	4.70%	997.09	995.99			
P341	S341	S340	III	15	32	27.06	4.21%	998.40	997.26			
P351	S351	S350	III	15	24	22.01	5.00%	996.76	995.66			
P360	S350		PVC	12	8	8.00	M/E	M/E	993.15			CONNECT TO EXISTING PIPE
P370	S370	S371	III	15	32	27.20	0.59%	998.12	997.96			
P371	S371	S380	III	15	56	55.76	2.74%	997.96	996.43			
P380	S380	S350	III	15	32	25.92	0.35%	994.75	994.66			
P390	S390	S380	PVC	8	184	177.62	0.21%	995.12	994.75			PERFORATED PVC PIPE
P391	S320	S390	PVC	8	48	44.80	1.79%	995.92	995.12			PERFORATED PVC PIPE
P114		S112	III	18	16	16.00	M/E	M/E	985.84			CONNECT TO EXISTING PIPE
P103	EX-N	S102	PVC	8	32	28.97	1.14%	993.20	992.87			CONNECT TO EXISTING STRUCTURE; UTLIZE GASKETS MANUFACTURED PER ASTM C 443
P299		S300	PVC	12	8	8.00	M/E	M/E	989.86			CONNECT TO EXISTING PIPE
P302		S301	III	15	8	8.00	M/E	M/E	990.51			CONNECT TO EXISTING PIPE
P229		S230	PVC	8	8	8.00	M/E	M/E	996.94			CONNECT TO EXISTING PIPE
P240	S240		PVC	8	8	8.00	M/E	995.85	M/E			CONNECT TO EXISTING PIPE
P392		S390	PVC	8	8	8.00	M/E	M/E	995.18			CONNECT TO EXISTING PIPE
P241		S240	PVC	8	8	8.00	M/E	M/E	995.95			CONNECT TO EXISTING PIPE
P400			RCP	15	8	8.00	M/E	M/E	M/E			CONNECT TO EXISTING PIPE

PIPE LENGTH TOTALS (LF):	
8" PVC	64
12" PVC	16
15" RCP	608
18" RCP	384
24" RCP	520
30" RCP	64
8" PERFORATED PVC	232

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2024 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2023

ESTIMATE OF QUANTITES AND GENERAL INFORMATION

① MONFIL-ORTEGA, LUIS E
904 8TH ST

② HUSE, STUART A & KATHRYN A
834 8TH ST

③ CLATT, MICHAEL R
903 8TH ST

④ POWELL, WILLIAM L & CINDY LU
810 I AVE

⑤ NEVADA SCHOOL DISTRICT
925 H AVE

⑥ NEVADA SCHOOL DISTRICT
925 I AVE

8TH STREET

I AVENUE

9TH STREET

POT Sta 100+00.00

POT Sta 104+68.04

POT Sta 308+64.00

REMOVE AND REINSTALL ONE PANEL OF CHAIN LINK FENCE. PROTECT GATE

TEMPORARY CONSTRUCTION EASEMENT (TYP.)

REMOVE AND REINSTALL TWO PANELS OF CHAIN LINK FENCE FOR WATER MAIN AND STORM SEWER INSTALLATION.

EXPLORATORY EXCAVATION TO VERIFY EXISTING WATER MAIN LAYOUT AND PIPE SIZES IN THIS AREA

RS-1

PROTECT LIGHT POLE

REMOVE SIGN

RELOCATE UTILITY POLE (BY OTHERS)

RS-6

RS-4

EXPLORATORY EXCAVATION TO CONFIRM SIZE OF EXISTING SANITARY SEWER PIPE ALONG 9TH STREET

RS-2

RS-3

REMOVE SIGN

PROTECT LIGHT POLE

RELOCATE GUY WIRE (BY OTHERS)

REMOVE SIGN

TEMPORARY CONSTRUCTION EASEMENT (TYP.)

0 20
FEET

EXISTING GROUND PROFILE

PROPOSED CENTERLINE PROFILE

BEGIN NEW PAVEMENT
STA. 100+90.02

990.90

VPI +05.006
Elv 991.02

+0.800%

+1.752%

VPI +91.501
Elv 994.28

+2.235%

END NEW PAVEMENT
STA. 103+82.69

997.17

100	101	102	103	104
990.00	990.98	992.33	993.38	994.47
990.34	991.28	992.68	993.73	995.37
990.74	991.63	993.03	994.08	995.82
990.77	991.98	993.38	994.92	996.26
990.84				996.71
				997.16
				996.16

1004 1000 996 992 988 984 980 976

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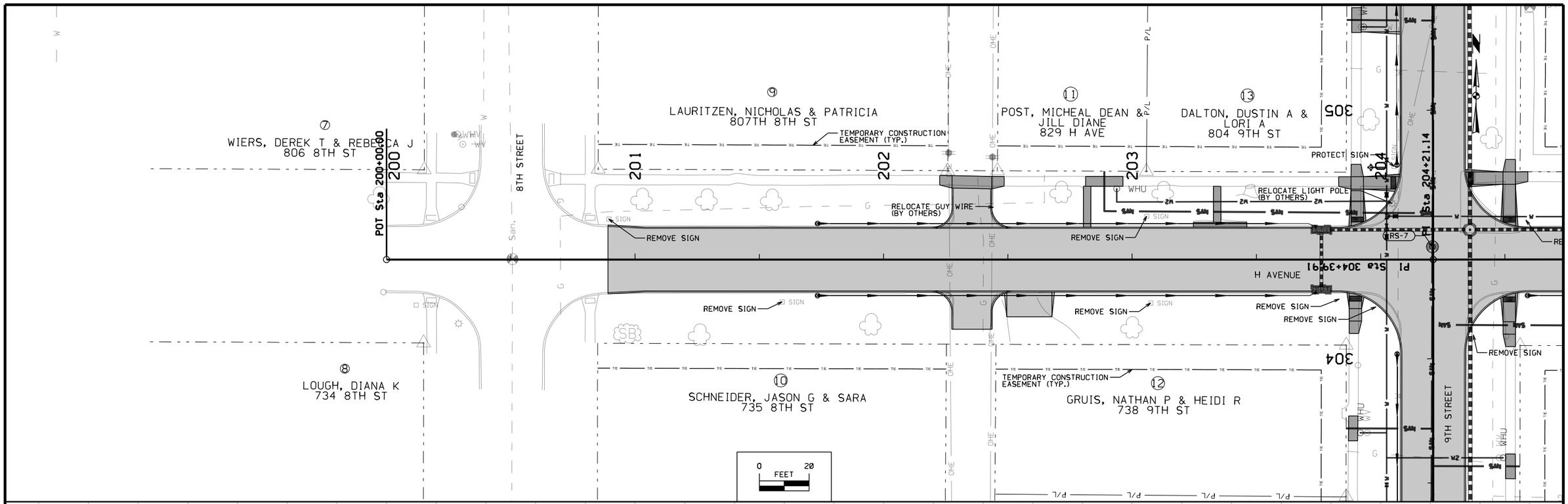

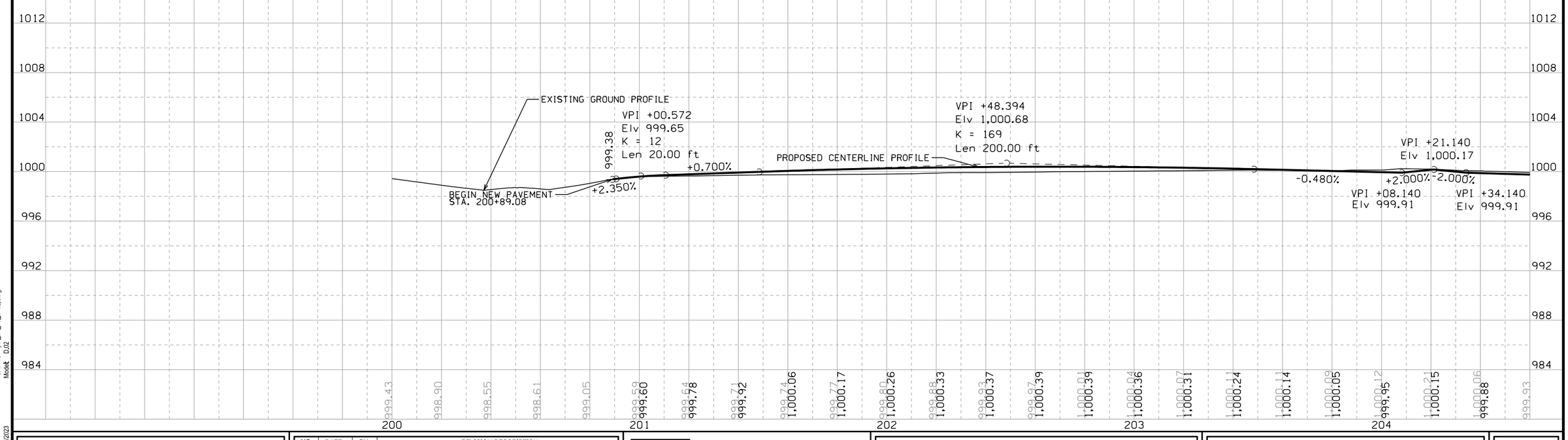

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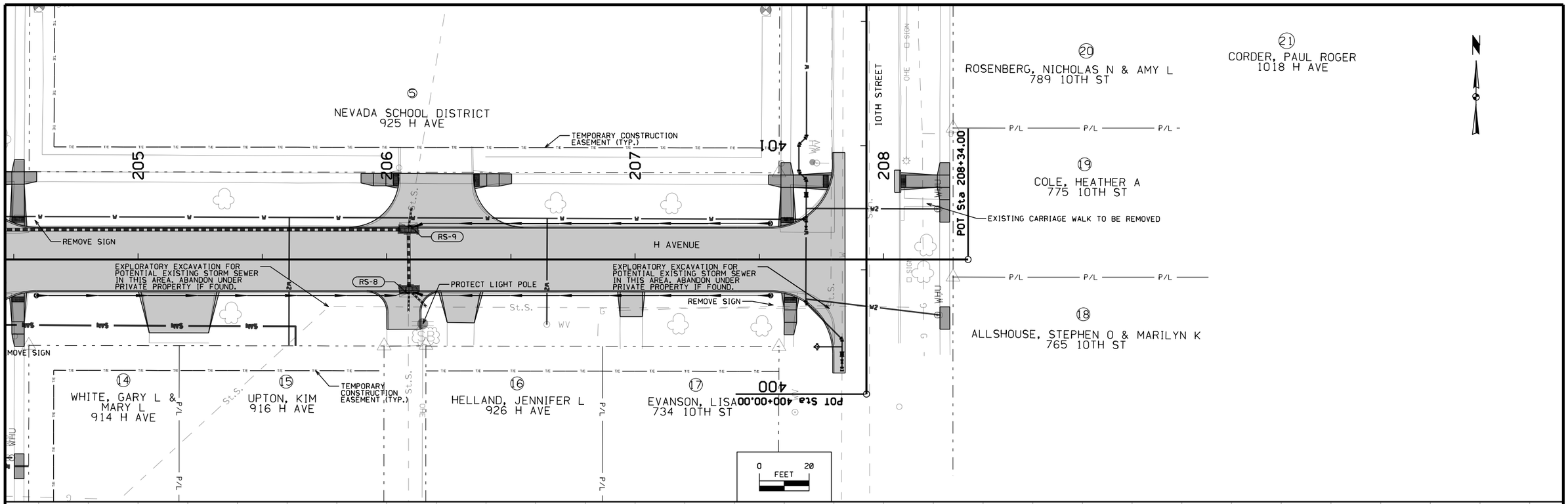

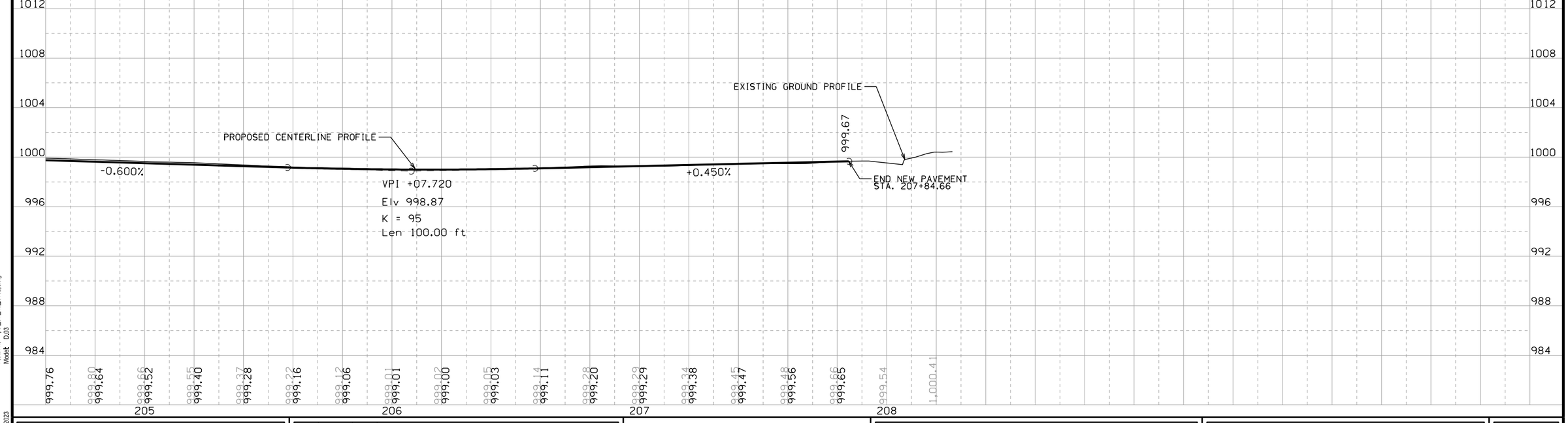

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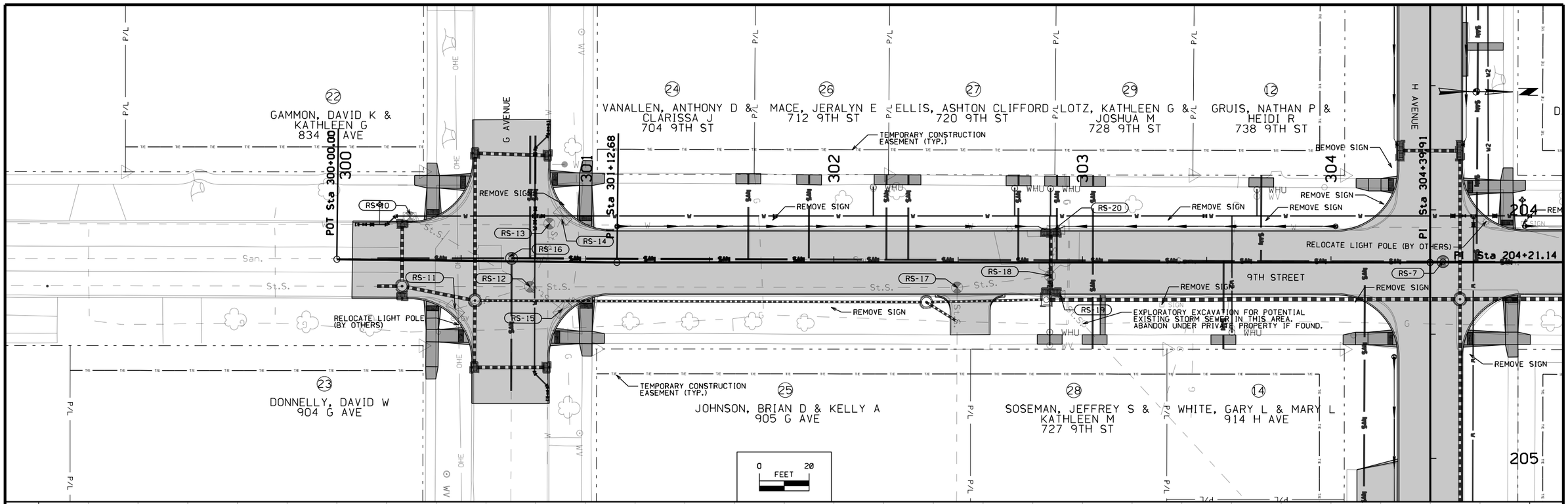

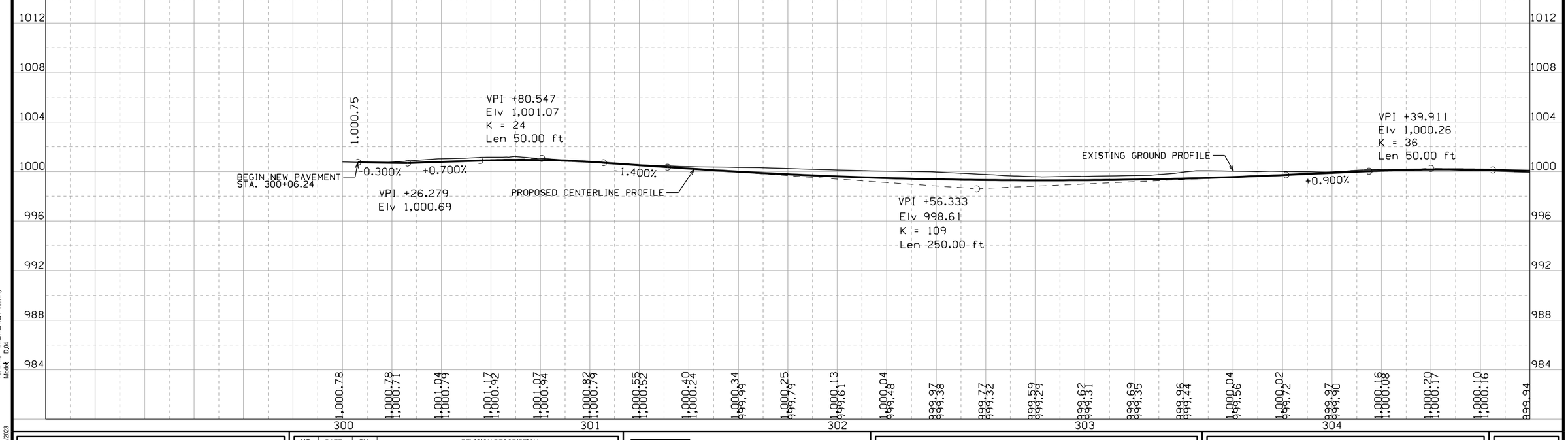

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9TH STREET
PLAN AND PROFILE

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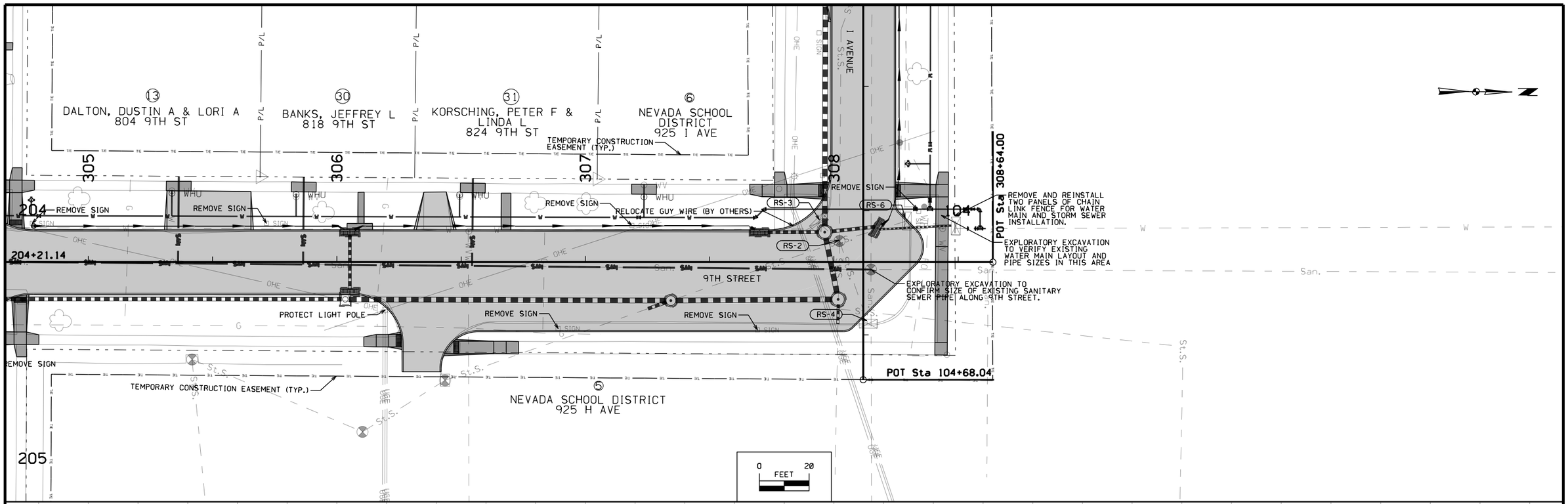

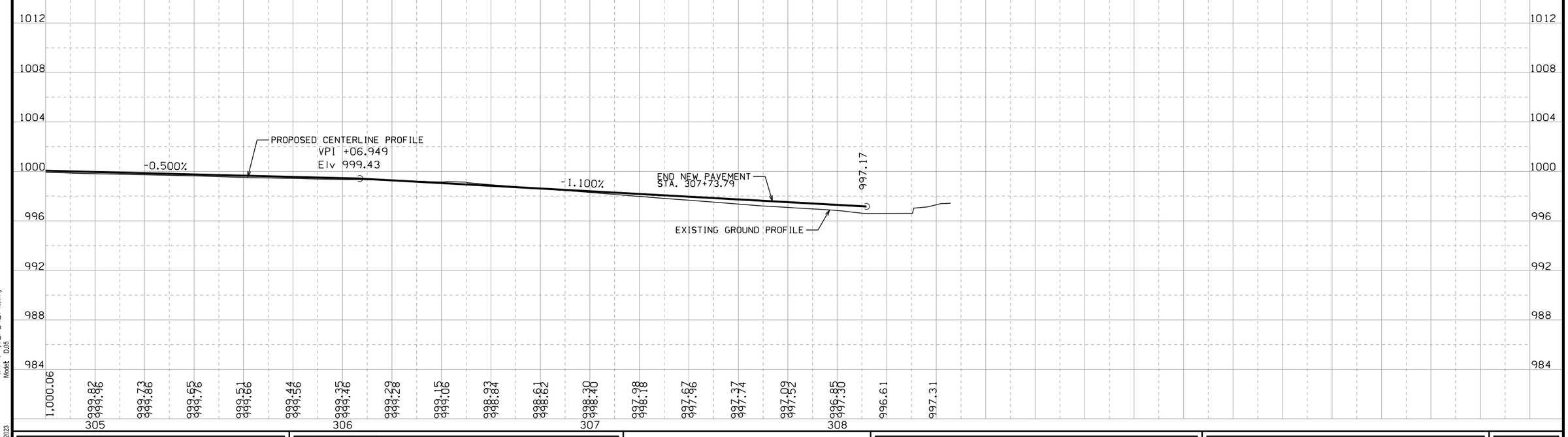

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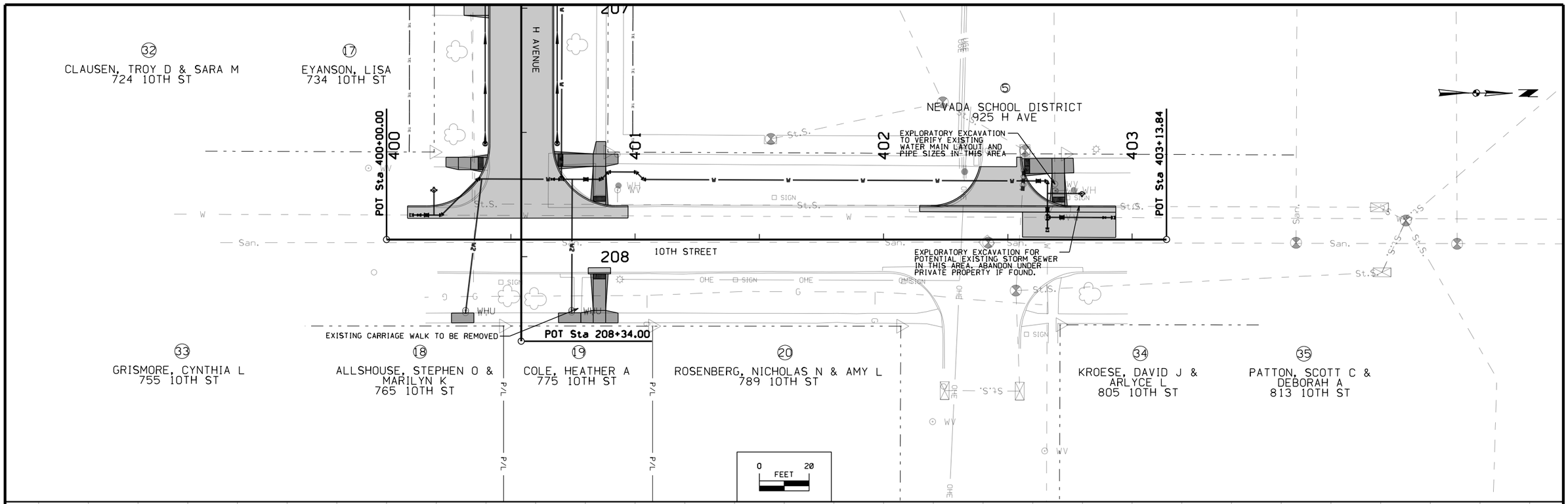

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2024 STREET IMPROVEMENTS
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9TH STREET
PLAN AND PROFILE

SHEET NO.
D.06

108-23A
08-01-08

TRAFFIC CONTROL PLAN

TRAFFIC CONTROL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH SPECIFIC LAYOUTS SHOWN ON THESE PLANS AND THRU TRAFFIC SHALL BE MAINTAINED VIA DETOURS OR ALLEYWAYS DURING CONSTRUCTION. TRAFFIC CONTROL DEVICES, PROCEDURES, AND LAYOUTS SHALL CONFORM TO CURRENT MANUAL ON UNIFORM TRAFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE IOWA DEPARTMENT OF TRANSPORATION PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.

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

1. CHANGES TO THE STAGING PLAN MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED TRAFFIC CONTROL PLANS TO THE ENGINEER FOR ALL STAGES OF WORK. WRITTEN NOTICE SHALL BE PROVIDED TO THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF ROADWAY CLOSURES. ADJUSTMENT TO ADVANCED SIGNAGE AND BARRICADING ARE SUBJECT TO ENGINEER APPROVAL AND ARE CONSIDERED INCIDENTAL.

2. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH SUDAS SECTION 8030: TEMPORARY TRAFFIC CONTROL.

3. PLACE PORTABLE DYNAMIC MESSAGE SIGNS OR STATIC MESSAGE SIGNS IN ADVANCE OF CLOSURES AND DETOURS, A MINIMUM OF FIVE (5) DAYS IN ADVANCE OF COMMENCEMENT OF WORK. DYNAMIC MESSAGE SIGNS ARE INCIDENTAL TO THE TEMPORARY TRAFFIC CONTROL ITEM. THE CONTRACTOR SHALL COORDINATE WITH THE CITY REGARDING THE MESSAGES.

4. PROVIDE APPROPRIATE SIGNAGE IF, AT ANY TIME, THERE IS AN ELEVATION DIFFERENCE BETWEEN ADJACENT OR OPPOSING TRAVEL LANES ON ANY STREET, SIDEWALK, OR TRAIL

5. THE SPACING OF ALL SIGNS AND THE DISTANCES BETWEEN SIGNS SHOWN IN THE PLAN SHALL MEET THE REQUIREMENTS OF THE 2009 MUTCD. IF THE MINIMUM SPACING BETWEEN SIGNS CANNOT BE MAINTAINED, THE SIGN LOCATIONS SHALL BE ADJUSTED TO PROVIDE THE LARGEST SPACING AVAILABLE.

6. THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER.

7. SLATTED SNOW FENCE OR ORANGE PLASTIC SAFETY FENCE SHALL BE PLACED ENTIRELY ACROSS THE TRAVELED PORTION OF THE ROADWAY AT ALL LOCATIONS WHERE TYPE III BARRICADES AND "ROAD CLOSED" SIGNS ARE USED.

8. AS APPLICABLE, THE FOLLOWING REQUIREMENTS APPLY FOR SIGNING ALTERNATIVE ROUTES FOR SIDEWALKS CLOSED DURING CONSTRUCTION:
- ALTERNATIVE ROUTES FOR CLOSED ADA-COMPLIAT SIDEWALKS SHALL THEMSELVES BE ADA-COMPLIANT.
- ALTERNATIVE ROUTES FOR CLOSING SIDEWALKS THAT ARE NOT ADA-COMPLIANT SHALL PROVIDE, AT MINIMUM, THE SAME ACCESSIBILITY AS THE CLOSED SIDEWALK.

9. EXCEPT WHEN CONTRACT OPERATIONS ARE OCCURRING WITHIN THE SIDEWALK AREAS, PEDESTRIAN TRAFFIC SHALL BE MAINTAINED THROUGH WORKSPACES OR TRAFFIC CONTROL ZONES DURING THIS PROJECT. THE CONTRACTOR SHALL PROVIDE APPROPRIATE SIGNAGE FOR SIDEWALK CLOSURES.

10. SIDEWALK REMOVAL AND RECONSTRUCTION SHALL BE STAGED TO MINIMIZE LOSS OF PEDESTRIAN ACCESS TO RESIDENTIAL ENTRANCES. MAXIMUM ALLOWABLE LOSS OF ACCESS IS 48-HOURS. ALL WORK AT ENTRANCES SHALL BE COORDINATED WITH THE RESIDENT AND/OR OWNER.

11. THE CONTRACTOR IS TO OBTAIN SIDEWALK TRAFFIC CONTROL APPROVAL FROM THE CITY PRIOR TO IMPLEMENTATION. SIDEWALK TRAFFIC CONTROL SHALL REMIAN IN PLACE UNTIL SIDEWALKS ARE REPLACED AND ACCESSIBLE. THE COST FOR THE SIDEWALK ACCOMMODATIONS IS INCIDENTAL TO THE COST OF TRAFFIC CONTROL.

12. THE TRAFFIC CONTROL BID ITEM SHALL INCLUDE THE COST OF ALL TRAFFIC CONTROL MEASURES REQUIRED OF THE CONTRACTOR.

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STAGING NOTES

IT IS NOT INTENDED TO CONFINE THE CONTRACTOR'S ACTIVITIES TO THE AREAS OF SUGGESTED STAGES ALONE. IT IS UNDERSTOOD THAT SOME OF THE VARIOUS STEPS, THOUGH LISTED IN NUMERICAL ORDER, MAY OCCUR SIMULTANEOUSLY. THE CONTRACTOR MAY CONDUCT SEVERAL OPERATIONS CONCURRENTLY, PROVIDED THAT TRAFFIC IS MAINTAINED AND THAT THESE OPERATIONS DO NOT CONFLICT WITH THE STAGING INDICATED HEREIN.

COORDINATING WITH UTILITY COMPANIES TO RELOCATE OR ADJUST EXISTING UTILITY LINES WHERE CONFLICTS EXIST SHALL BE DONE BEFORE THE START OF EACH PHASE.

THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL SIGNAGE AS DIRECTED ON EACH STAGING AND TRAFFIC CONTROL PLAN SHEET. THE TRAFFIC CONTROL SIGNAGE SHALL BE COMPLETE BEFORE THE START OF EACH PHASE. THE TRAFFIC CONTROL SIGNAGE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AS SHOWN IN THE J-SHEETS.

ACCESS SHALL BE MAINTAINED TO ALL ADJACENT PROPERTY OWNERS AND BUSINESS AT ALL TIMES THRU SIDE ROADS AND ALLEYWAYS. THE CONTRACTOR SHALL KEEP THE NUMBER OF DRIVEWAYS IMPACTED AT ANY ONE TIME TO A MINIMUM. THE CONTRACTOR MAY USE TEMPORARY PAVEMENT TO MAINTAIN ACCESS AS APPROVED BY THE ENGINEER.

VERIFY F SHEETS FOR EROSION AND SEDIMENT CONTROL WORK TO ADDRESS CONTRACTOR'S TIMETABLE AND SEQUENCE FOR MAJOR ACTIVITIES.

POSTAL SERVICE:
CONTRACTOR TO COORDINATE LOCATION OF TEMPORARY MAILBOX CLUSTER(S) FOR THE AFFECTED ADDRESSES DURING CONSTRUCTION PHASES WITH RESIDENTS AND LOCAL MAIL AUTHORITY WHILE MAILBOXES ARE BEING RELOCATED AND ARE INACCESSIBILE DUE TO CONSTRUCTION WORKING AREA.

GARBAGE AND RECYCLING SERVICES:
CONTRACTOR TO COORDINATE LOCATION OF COMMON COLLECTION POINT FOR TEMPORARY RESIDENTIAL TRASH AND RECYCLING SERVICES DURING CONSTRUCTION.

PHASE 1: (I AVENUE)
1. PERFORM REMOVALS AND CONSTRUCTION OF I AVENUE, INCLUDING I AVENUE AND 9TH STREET INTERSECTION, INCLUDING ALL PAVEMENT, UTILITIES, SIDEWALKS, AND DRIVEWAYS.
2. COORDINATE ANY NECESSARY DRIVEWAY CLOSURES WITH PROPERTY OWNERS.
3. ALL DRIVEWAYS TO SCHOOL TO REMAIN OPEN DURING THIS PHASE. COORDINATE PARENT PICK-UP LOCATION WITH SCHOOL AND PROVIDE ADEQUATE SIGNAGE AND TRAFFIC CONTROL MEASURES.
4. AT THE END OF PHASE 1 INSTALL PERMANENT PAVEMENT MARKINGS AS SHOWN ON THE K SHEETS.

PHASE 2: (9TH STREET FROM STA. 304+86.59 TO 307+69.21)
1. PERFORM REMOVALS AND CONSTRUCTION OF 9TH STREET (FROM STA. 304+86.59 TO 307+69.21), INCLUDING ALL PAVEMENT, UTILITIES, SIDEWALKS, AND DRIVEWAYS.
2. COORDINATE ANY NECESSARY DRIVEWAY CLOSURES WITH PROPERTY OWNERS.
3. TWO DRIVEWAYS TO SCHOOL TO REMAIN OPEN DURING THIS PHASE. COORDINATE PARENT PICK-UP LOCATION WITH SCHOOL AND PROVIDE ADEQUATE SIGNAGE AND TRAFFIC CONTROL MEASURES.
4. AT THE END OF PHASE 2 INSTALL PERMANENT PAVEMENT MARKINGS AS SHOWN ON THE K SHEETS.

PHASE 3: (10TH STREET AND H AVENUE FROM STA. 203+73.56 TO STA. 207+84.48)
1. CONSTRUCTION SHALL NOT START PRIOR TO THE LAST DAY OF SCHOOL (APPROXIMATELY MAY 24, 2024) AND ALL CONSTRUCTION SHALL BE COMPLETED PRIOR TO THE FIRST DAY OF SCHOOL (APPROXIMATELY AUGUST 23).
2. PERFORM REMOVALS AND CONSTRUCTION OF H AVENUE (FROM STA. 203+73.56 TO STA. 207+84.48), INCLUDING H AVENUE AND 9TH STREET INTERSECTION, INCLUDING ALL PAVEMENT, UTILTIES, SIDEWALKS, AND DRIVEWAYS.
3. PERFORM REMOVALS AND INSTALLATION OF WATER MAIN ALONG 10TH STREET, INCLUDING ALL SIDEWALKS, DRIVEWAYS, AND PAVEMENT PATCHING.
4. COORDINATE ANY NECESSARY DRIVEWAY CLOSURES WITH PROPERTY OWNERS.
5. AT THE END OF PHASE 3 INSTALL PERMANENT PAVEMENT MARKINGS AS SHOWN ON THE K SHEETS.

PHASE 4: (H AVENUE FROM STA. 200+89.08 TO STA. 203+73.56 AND 9TH STREET FROM STA. 300+19.18 TO STA. 304+01.94)
1. PERFORM REMOVALS AND CONSTRUCTION OF H AVENUE (FROM STA. 200+89.08 TO STA. 203+73.56) AND 9TH STREET (FROM STA. 300+19.18 TO STA. 304+01.94),INCLUDING ALL PAVEMENT, UTILITIES, SIDEWALKS, AND DRIVEWAYS.
2. COORDINATE ANY NECESSARY DRIVEWAY CLOSURES WITH PROPERTY OWNERS.
3. ALL DRIVEWAYS TO SCHOOL TO REMAIN OPEN DURING THIS PHASE. COORDINATE ADDITIONAL TRAFFIC CONTROL MEASURES AND SIGNAGE WITH SCHOOL AS NECESSARY.
4. AT THE END OF PHASE 3 INSTALL PERMANENT PAVEMENT MARKINGS AS SHOWN ON THE K SHEETS.
5. INSTALL PERMANENT SEEDING THROUGHOUT ALL PHASES.

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2024 STREET IMPROVEMENTS
CITY OF NEVADA, IOWA 2023

STAGING AND TRAFFIC CONTROL

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2024 STREET IMPROVEMENTS

CITY OF NEVADA, IOWA 2023

STAGING AND TRAFFIC CONTROL

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