



ASSET MODERNIZATION

The purpose of this communication is to describe, validate and update the Asset Modernization investment that Northern has made and will continue to make to ensure the safety and reliability of its system, as well as to comply with applicable regulatory requirements. By the end of 2023, Northern is expected to have completed \$1.4 billion of Asset Modernization investment since the beginning of the program. Over the next ten years, Northern is expected to invest another \$2.7 billion, for a total overall investment of over \$4.1 billion in Asset Modernization since program inception.

The Asset Modernization program is intended to significantly reduce the reliability risk inherent in Northern's vintage facilities and the integrity risks that have plagued other operators. Northern classifies its Asset Modernization projects into seven broad project classifications: (1) Pipeline Assessment; (2) Maximum Allowable Operating Pressure Reconfirmation; (3) Compression Replacement; (4) Remote Mitigation Valves; (5) LNG Equipment Replacement; (6) Underground Storage Integrity; and (7) Vintage Pipeline Replacement. The Maximum Allowable Operating Pressure (MAOP) Reconfirmation and Remote Mitigation Valve programs were added to Northern's Asset Modernization project portfolio in 2022 to more precisely categorize and communicate additional facets of Northern's modernization efforts.

The program impacts Northern's operations and maintenance (O&M) expenses as well. While some projects result in a reduction to O&M, the net impact is an increase to O&M expenses. The primary O&M cost driver of Asset Modernization is the Pipeline Assessment category, which causes substantial increases to Northern's costs of in-line inspections due to the increased mileage of inspectable pipeline and increased inspection requirements to comply with updated pipeline safety laws and regulations. Many Asset Modernization projects reduce greenhouse gas emissions by replacing leak and emissionprone equipment with newer, more efficient systems.

Facilities of equivalent capacity are installed to replace the capacity of retired pipeline and compressor units. Incremental capacity is not generally created through these replacements; however, Northern has and will continue to pursue efficiencies through project coordination with expansion open seasons.

Background

The Northern pipeline system was built in phases, beginning in the 1930s, with system expansions developed to meet customer needs. Northern currently operates approximately 14,300 miles of pipeline and 55 compressor stations. Approximately 85% of the pipeline mileage was installed prior to the first enactment of federal pipeline safety standards in 1968. Significant expansion facilities were installed in the 1940s, 1950s and 1960s, and the utility and reliability of these expansions has been maintained with robust equipment analysis, equipment maintenance programs and proactive parts management. While these

facilities are still dependable, they have a finite life, and vendor/product support is no longer available for older equipment as manufacturers move to support newer technology.

Northern has been working to maintain and modernize its system for many years, repairing and replacing components of its transmission and storage plant to ensure continued reliability. Examples of Northern's modernization efforts over the last eight years include:

- Replacing compressor units at eight stations within Northern's operational territory.
- Modernizing original equipment installed at Northern's liquefied natural gas (LNG) storage facilities in Garner, Iowa and Wrenshall, Minnesota.
- Abandoning approximately 700 miles of large-diameter (greater than 12-inch diameter) 1930s vintage A-mainline from Bushton, Kansas to Ventura, Iowa and Palmyra, Nebraska to Sioux Falls, South Dakota as part of the vintage pipeline replacement program.
- Modifying pipelines to make nearly 2,400 miles of large-diameter pipe inspectable in the past eight years, modifying an average of 335 miles a year since 2019.

While these efforts have maintained the reliability of Northern's system, Northern continues broader replacement programs for specific asset modernization needs.

Asset Modernization as a category was created in 2016 to capture and characterize the significant increase in costs related to modernization projects. Northern's Asset Modernization program was designed using FERC's policy statement on Cost Recovery Mechanisms for Modernization of Natural Gas Facilities, and it necessarily represents a significant expansion of Northern's historical maintenance and upgrade programs due to the age of the system and updated safety laws and regulations. The costs are captured in the following budget summary categories:

- Pipeline Assessment
- Maximum Allowable Operating Pressure Reconfirmation
- Remote Mitigation Valves
- Compression Replacement
- LNG Equipment Replacement
- Underground Storage Integrity
- Vintage Pipeline Replacement

Northern must continue with this Asset Modernization effort to ensure its industry-leading service reliability will not suffer due to increased outage quantities and duration, as well as to comply with increased legal and regulatory requirements as further discussed below. In addition, Asset Modernization ensures continued pipeline integrity and avoids unacceptable pipeline incidents. The industry in general, including distribution utilities, have undertaken similar modernization efforts to replace vintage facilities such as cast-iron pipelines, which pose similar threats to service reliability and public safety.

Capital Expenditures Summary

Northern expects to complete \$251 million of Asset Modernization projects in 2023, compared with \$300 million in projects completed in 2022. Asset Modernization projects totaling \$2.7 billion are planned from 2024 through 2033, approximately \$410 million greater than the 10-year plan reported in 2022, primarily due to additional MAOP reconfirmation and underground storage projects discussed below.

Asset Modernization does not completely replace all vintage facilities on the Northern system, as a majority of the approximately 14,300 miles of pipeline and 181 compressor units will continue to be maintained through more traditional means. The Asset Modernization program only addresses facilities and systems at the end of their useful lives or where replacement or inspections are required by federal regulations.

Budget Summary Categories

Pipeline Assessment

On October 1, 2019, the Pipeline and Hazardous Materials Safety Administration (PHMSA) issued the first of a three-part final rule titled the Safety of Gas Transmission Pipelines: MAOP Reconfirmation, Expansion of Assessment Requirements and Other Related Amendments (Mega Rule). The rule focuses primarily on reconfirming maximum allowable operating pressures and expanding assessment requirements to include the recently defined moderate consequence areas. The rule expands pipeline integrity assessments. The rule requires MAOP reconfirmation in high consequence areas, moderate consequence areas, and Class 3 locations that operate at or above 30% specified minimum yield strength.

The Pipeline Assessment category captures significant capital expenditures driven by the need to modernize infrastructure for the purpose of accommodating the internal inspection of pipelines and to comply with increased requirements imposed by new and updated pipeline safety laws and regulations. The costs for pipeline assessments fall into two major categories:

- (1) Pipeline modification projects on Class 3 pipeline segments that are operating above 30% specified minimum yield strength not previously assessed with in-line inspection tools to meet requirements of the Mega Rule.
- (2) Pipeline modifications to increase the percent of the system that is in-line inspection capable with the focus on large-diameter pipelines (greater than 16-inch-diameter) and pipelines operating above 30% of their specified minimum yield strength in areas outside of high consequence areas, and to assist with meeting existing PHMSA MAOP Regulations and other regulations.

As shown in Exhibit No. 1, Northern plans to invest \$592 million in Pipeline Assessment projects during the next 10 years. The large-diameter pipeline modifications are anticipated to be largely complete by 2030 and all projects mandated by the Mega Rule will be completed by 2035.

These projects will continue to have a significant O&M expense impact that materializes as a result of subsequent in-line inspections, tool data verification excavations and repair work associated with the inspections. These costs are not included in the capital portion of the work required to make the modifications, and are extremely variable based on the line length, tool technology required and results of the inspection. Expenses associated with the inspections will be recurring, normally five to 10 years in frequency, depending on the condition of the line and regulatory requirements.

MAOP Reconfirmation

As noted above, the Mega Rule, issued by PHMSA in 2019, requires MAOP reconfirmation in high consequence areas, moderate consequence areas, and Class 3 locations that operate at or above 30% specified minimum yield strength. While Northern has conducted many reviews to confirm MAOP of its pipelines, if no pressure test record exists for a pipeline, the MAOP must be re-established by completion of a pressure test, reducing pressure, an engineering critical assessment or through pipe replacement. The pipe replacement projects are being captured as part of Northern's Asset Modernization program as these replacements increase pipeline integrity and reliability in areas of consequence.

The majority of Northern's pipelines impacted by the Mega Rule have existing pressure tests and material documentation in support of the MAOP. Of approximately 603 miles of pipeline within high consequence areas, moderate consequence areas, and Class 3 locations, 510 miles of pipeline have adequate pressure test records that establish MAOP. Northern's system has approximately 93 miles of pipeline requiring reestablished MAOP.

As shown in Exhibit No. 1, Northern plans to invest \$495 million in MAOP replacement projects during the next 10 years. Per the PHMSA rule, half of these projects must be completed by 2029, with the entire program complete in 2034. Northern reevaluated and reprioritized projects in 2023 to ensure completion within the PHMSA requirements. As a result of this review, Northern increased the 10-year budget by \$157 million and accelerated \$43m of projects into 2024.

Remote Mitigation Valves

On April 8, 2022, PHMSA revised the Federal Pipeline Safety Regulations applicable to most newly constructed and entirely replaced onshore gas transmission pipelines with diameters of six-inches or greater. In the revised regulations, PHMSA requires installation of remote mitigation valves, such as an automatic shut-off valve (ASV) or a remote-control valve (RCV), to minimize the volume of gas released from a pipeline in the case of a pipeline rupture, helping to mitigate public safety and environmental consequences. The

final rule establishes requirements for remote mitigation valves spacing, maintenance and inspection and applies to construction after April 10, 2023.

Previously, Northern estimated spending approximately \$2.4 million per year on projects to install RCVs on existing pipelines in consequence areas; however, Northern plans to spend an average of \$11.4 million per year in 2024 and 2025. These projects will be ongoing as Northern assesses risks and opportunities to mitigate the risks on the existing system. Remote mitigation valves will also be installed as required on new pipeline segments and included with the original project (excluded from Asset Modernization).

Compression Replacement

The Compression Replacement category represents the costs to replace vintage compressor units as well as related auxiliary equipment and infrastructure. Projects are prioritized based on unit vintage, criticality to pipeline operations, historical reliability concerns and outlook for future maintainability.

To fulfill customer commitments, it is paramount that Northern's compression fleet maintain high reliability. With more than sixty units reaching 80-years old and some surpassing 90-years old in the next 20 years, a replacement program has been implemented that will mitigate short- and long-term customer reliability risks. Northern will replace at least one unit per year to allow replacement of units and critical auxiliary equipment at a rate necessary to largely avoid relying on units greater than 90 years old. If not replaced, such vintage units would present significant reliability risk to Northern's customers, as the equipment would be difficult to maintain and overhaul given obsolescence of spare parts, lack of industry service options, and end of life being reached on major unit subcomponents that are not normally replaced or available.

Northern has 94 compression units between 50 and 75 years old. The current Asset Modernization plan includes replacement of approximately 45 units over the next ten years, 25% of Northern's 181 total compression units. Twenty units have been replaced under this program since 2016, as shown in the table below. The units targeted for modernization are spread across Northern's system and are included in both the field and market areas.

Replacement Year	Location	Vintage	Number of Units	Unit Type
2016	Beatrice, Nebraska	1972	1	General Electric LM-1500 (Turbine)
2019	Mullinville, Kansas	1968	1	General Electric LM-1500 (Turbine)
2020	Bushton, Kansas	1968	1	General Electric LM-1500 (Turbine)
2021	Farmington, Minnesota	1961-1965	5	Ingersoll Rand 616KVT x Qty. 2; Ingersoll Rand 48KVS x Qty. 3 (Reciprocating)
2022	Brownfield, Texas	1968	1	General Electric Frame 3 Model F (Turbine)
2022	Ogden, Iowa	1951-1953	4	Cooper Bessemer 26-H (Reciprocating)
2022	Spraberry, Texas	1953	2	Ingersoll Rand 412KVG (Reciprocating)
2023	Paullina, Iowa	1947	5	Ingersoll – Rand 82KVG (Reciprocating)

Table 1: Compression replacement projects completed as part of Northern's asset modernization program.

When prioritizing compression replacement projects, Northern considers the vintage, continued maintenance ability, repair requirements and overhaul frequency necessary to sustain reliability. As facilities reach obsolescence, parts become more difficult – if not impossible – to obtain. In fact, Northern has manufactured many of its own replacement parts for outdated units. In addition to lack of spare parts, qualified third-party vendor service options and quality of service can rapidly diminish for units as they become rare in the industry. Unexpected failures can lead to longer outages while parts are located or fabricated and qualified repair resources are secured, negatively impacting service to customers.

For example, the Beatrice, Nebraska; Mullinville, Kansas; and Bushton, Kansas, units replaced in 2016, 2019 and 2020 respectively, eliminated the last three General Electric LM 1500 units on the Northern system. These 1960s vintage units were becoming increasingly unreliable, with quality of spare parts and service waning, with only one known service option remaining within the industry. Critical rotating components were at end of useful life and not available for replacement. Early 1950s vintage horizontal reciprocating compressor units at Ogden, Iowa, were replaced for similar reasons in 2022. Most pipeline companies in North America replaced vintage horizontal compressors years ago, although Northern was able to extract several years of additional life out of the units by self-performing most maintenance and manufacturing spare parts in-house when they were not otherwise available.

In some cases, retirement offers the benefit of extending the service life of remaining units. For example, replacement of the General Electric Frame 3 turbine in Brownfield, Texas, in 2022 gave Northern access to critical spare parts such as rotors, casings, and turbine wheels that are not generally available within the industry and will help extend the service life of nine additional like turbines across the Northern compression fleet.

In addition to maintenance and reliability concerns, vintage units also require replacement to comply with more rigorous environmental regulations. For example, the Farmington, Minnesota, early 1960s vintage reciprocating Unit Nos. 1-5 were replaced in 2022, as the station would otherwise fail to meet current emissions limits mandated by the Minnesota Pollution Control Agency. In general, vintage unit replacements reduce greenhouse gas emissions, as antiquated equipment is replaced with new, more efficient equipment.

Upcoming projects include replacing the 1970's vintage electric driven Garner C-061 York refrigeration compressor at the Garner, Iowa, liquified natural gas facility in 2024. The existing refrigeration compressor is becoming increasingly difficult to maintain, creating a reliability risk for this critical unit. In addition to limited technical support from the manufacturer or aftermarket support vendors, spare part lead time is generally longer than six months. Northern is opting to install a natural gas-fired unit as increasing operational and electric costs make an electric driven compressor less economical over the long-term.

In 2025, Northern will replace four 1960's vintage Worthington ML-7 units at the North Branch, Minnesota, compressor station. Few of these units are still in-service within the industry and are poorly supported by original equipment manufacturer. Spare parts are high-cost, custom orders that often take more than a year to fulfill. Replacing these units in 2025 also allows Northern to avoid over \$10m in capital projects intended to offset reliability concerns with unit and station auxiliary equipment. Finally, replacing these units will also allow for compliance with potential future emissions mandates in Minnesota.

As shown in Exhibit No. 1, Northern plans to invest \$628 million in Compression Replacement projects during the next 10 years.

LNG Equipment Replacement

Northern operates peak shaving LNG facilities at Wrenshall, Minnesota, and Garner, Iowa. The Wrenshall LNG station was installed in 1974, and the Garner LNG station was installed in 1977. These cryogenic facilities each have 2.1 billion cubic feet of LNG storage and can vaporize the stored liquefied gas into useable pipeline gas at a total rate of 300,000 Mcf/day through three vaporization trains. The liquefaction equipment can replace vaporized storage gas at a rate of 12,000-17,000 Mcf/day.

The LNG facilities are used as operational storage to support the delivery of hourly peaking volumes, to support the simultaneous receipt and delivery of transportation quantities, and to balance line pack on Northern's system. While vaporization ensures contractual deliveries are not jeopardized, the resultant system flexibility has also proven routinely critical for customer reliability in winter.

This category represents the cost to replace major equipment components at the LNG plants. LNG plant operations also involve significant electrical and electronic control equipment. Electrical system modernization increases the safety and reliability of station motor control centers and electrical power distribution to critical vaporization and liquefaction equipment.

The original facilities were installed in the 1970's, and as a result, much of the equipment has reached the end of its life. Northern has historically maintained older equipment and replaced parts or subsystems versus wholesale replacements. However, in recent years, routine maintenance projects have proven insufficient, and Northern began replacing larger systems or pieces of equipment out of necessity. This equipment either displayed integrity concerns or required replacement due to obsolescence and unavailability of parts.

Also, as part of the ongoing modernization and replacement of original equipment at the Garner facility, the 4160-volt motor control replacement project will be completed in 2023 and 2024 with the cold box heat exchanger and the noted refrigeration compressor replacement. The 480-volt motor control replacement project was completed in 2022.

At the Wrenshall LNG facility, vaporizer replacement is planned for 2026. This project will replace all three of Wrenshall's direct fired, submerged combustion LNG vaporizers which are original to the facility and have become less reliable and more costly to maintain. The replacement LNG vaporizers will reduce maintenance costs as well as improve vaporizer reliability. In 2026 the current 5,900 gallon liquid nitrogen storage tank and associated vaporizer, both original to the facility, are scheduled to be replaced. The nitrogen vaporizer will be increased in size to better meet the capacity requirements of the various nitrogen system uses throughout the facility. Replacement of the reactivation gas cooler and purification filters, also original to the facility and nearing the end of serviceable life, are scheduled for replacement in 2027 and 2028.

As shown in Exhibit No. 1, Northern plans to invest \$36 million in LNG Replacement projects during the next 10 years. These projects are expected to continue intermittently beyond the 10-year outlook to maintain system reliability.

Underground Storage Integrity

The Underground Storage Integrity category includes projects to ensure compliance with a relatively new PHMSA rule. In 2020, the Safety of Natural Gas Underground Storage Final Rule became effective, giving PHMSA new jurisdiction over the underground storage field wells and reservoirs. The new regulations incorporated new industry standards into the pipeline safety regulation that operators are required to implement, including American Petroleum Institute API- Recommended Practice 1171- Functional Integrity of Natural Gas Storage in Depleted Hydrocarbon and Aquifer Reservoirs. To comply with the regulations, Northern revised its reservoir integrity management plan to include new operating procedures and engineering standards and also created the Underground Storage Integrity capital expenditure program.

Under its reservoir integrity management plan required per this rulemaking, Northern will complete additional observation and natural gas withdrawal wells in the Redfield, Iowa, underground storage field. Additionally, Northern will establish and maintain an undisturbed buffer zone around the storage field to further ensure field integrity. Northern completed the installation of a withdrawal well in 2020 and in 2022.

This year, Northern completed an engineering design study to add a natural gas dehydration and hydrogen sulfide treatment facility to the Lyons, Kansas underground storage system, with construction anticipated in 2026 and 2027. Currently, Northern performs dehydration and hydrogen sulfide treatment on the storage gas at a facility in Bushton, Kansas, 16-miles away. While Northern has maintained the 1974 vintage facility in Bushton, maintenance efforts and costs have increased substantially in recent years. A new facility located in Lyons, Kansas will optimize gas treatment at the withdrawal point of the storage field similar to Northern's other underground storage facilities. This eliminates the shipment of untreated gas to the Bushton, Kansas facility. Additionally, the new treatment facility will be constructed according to current codes, regulations and best practices, which will increase the energy efficiency of the facility as well as employee safety by providing improved means of ingress and egress.

Northern also added the Cunningham, Kansas storage facility northeast containment system project to the underground storage integrity program. This project is planned for 2025 and includes the installation of a water extraction well, water injection well and associated facilities to allow for water injection to prevent the migration of storage gas beyond the limits of the field. This is similar to the existing north extension containment system.

As shown in Exhibit No. 1, Northern plans to invest \$159 million in Underground Storage Integrity projects during the next 10 years. These projects are expected to continue beyond the 10-year outlook as additional withdrawal well replacements or observation wells are needed.

The new wells will slightly increase storage O&M expense to maintain the new facilities.

Vintage Pipeline Replacement

The Vintage Pipeline Replacement projects will replace existing aged pipelines by abandoning mechanically coupled and acetylene-welded mainlines and branch lines and installing facilities to replace the associated capacity. To date, Northern has abandoned approximately 760 miles of vintage mainline and branch line as part of this program, with an additional 210 miles of mainline planned for abandonment through 2029.

Mechanically coupled pipeline joint technology, originating in 1891, and acetylene-welded pipeline technology, initially used for pipeline construction beginning in 1911, were historically used in natural gas pipeline applications but were largely discontinued by 1940. These construction techniques were also used in the initial construction of Northern's system. By 1933, most cross-country pipelines were being constructed with the superior-strength electric resistance arc-welded girth joints, as mechanically coupled and acetylene-welded joints are subject to failure from ground movement and can frequently leak natural gas. Furthermore, these joint types are not compatible with modern pipeline integrity assessment methods; they cannot be inspected with in-line inspection tools nor hydrostatically tested without incurring significant quantities of leaks. Additionally, much of this pipe is uncoated and is therefore susceptible to external corrosion.

While Northern has successfully operated these facilities for nearly 90 years, these pipelines have reached the end of their useful life. As shown in Exhibit No. 1, Northern plans to invest \$727 million in Vintage Pipeline Replacement projects during the next 10 years. This program is anticipated to continue for approximately 15 years, with large-diameter mainlines being replaced within the next six years and the program's focus shifting to branch lines and ultimately small-diameter pipelines. The total program cost is currently estimated at \$1.3 billion through 2033 although updates on the total will be provided as out-year projects are more fully evaluated and prioritized.

Conclusion

In summary, Northern will invest approximately \$2.7 billion over the next 10 years to modernize the pipeline, compression, underground storage and LNG facilities as described above, resulting in improvements to system integrity, reliability, efficiency and public safety.

Project Description	2024	2025	2026	2027 - 2033	10-Year
	2024	2023	2020	2027 - 2033	2024 - 2033
Pipeline Assessments M520C Ogden-To-Ventura In-Line Inspection Modifications					
M590D And M590E Beatrice-To-Palmyra ILI Modifications		9,630,270	10,021,645		
M510B Waterloo-To-Dubuque In-Line Inspection Modifications					
M580D-30-l-Mods23 MP 0-30 Palmyra-Mynard D MNB86701-8-l-Mods22 Stillwater-CL3					
MNB66801 Grand Rapids Branch Line In-Line Inspection Modificaiton	2,494,309				
M440B North Branch-to-Carlton ILI Modifications Carlton Receiver					
M510C EarlivIle Branch Line Take-off Emergency M660E-30-I-Mods28 Macksville-Bushton E				5,662,978	
LYU12101-3-Install Launcher at Well 11-10				5,002,578	
M580C MP 14.12 Tap and Lateral to Weeping Water TBS					
MNB75202-MNB67302-6-I-Mods23 Waconia-Mound 2nd	10 706 921				
M836B-16-I-Mods24 Sid Richardson-Hobbs-MCA CNU22801-6-Mod2023 Install Launcher and Receiver	10,706,821				
M600E and M600D Clifton-to-Beatrice In-Line Inspection Modification					
Brownfield-To-Beaver In-Line Inspection Modifications					
M710B-20-X-I-Mods22 Holcomb-Kalvesta B - Pig Trap Facilities M815B Gaines County to Brownfield ILI Modifications					
M511B Dubuque to Galena ILI Modifications Iowa Side					
M796B Kalvesta-Burdette ILI Modifications					
IAB42701 Worthington 2-inch BL Replacement SDB92002-8-Repl24 Replace Yankton 2nd-MCA	5,598,003				
IAB57201 Earlville Branch Line Replacement and 260th Bore	3,330,003				
M660D-30-X-I-Mods22 Macksville-Bushton D					
M771B Dumas-to-Sunray ILI Mods MCA	3,122,405				
A1-AFE-22-216: M532C Galena-to-Janesville ILI Modifcations M530D-30-I-Mods24 Oakland-Ogden D-MCA Oakland Portion	11,926,438				
M500B-26-I-Mods24 Ventura-Faribault B-MCA Owatonna	11,055,455				
WIB23601-12-I-Mods24 Beloit-MCA	4,234,357				
Huron South Dakota 1 TBS Relocation WIB13401-4-H-Mods MP 0-5 Monroe-MCA	2,673,232 1,651,376				
NEB43201-12-H-Mods MP 0-0.03 OPPD BL-MCA	633,014				
M520D-30-I-Mods25 Ogden-Vent D-MCA		10,390,389			
M500C-30-I-Mods25 Ventura-Faribault C-MCA M500D-30-I-Mods25 Ventura-Faribault-MCA		10,231,261 10,200,153	10,912,441		
M500D-50-1-Mods25 Ventural-Anabalit-MCA M530D-30-1-Mods25 Oakland-Ogden D-MCA Ogden Portion		7,666,494			
NEB52902-10-I-Mod25 MP 0-28 Columbus 2nd-MCA		5,968,575			
M119C-20-I-Mods25 Odgen-Redfield C-MCA		4,117,486			
M119B-20-I-Mods25 Ogden-Redfield B-MCA MNB75601-10-I-Mods MP 50.6-79.4 Willmar BL-MCA		3,801,419	6,535,900		
MNB73202-12-I-Mods MP 0-43.8 lacrosse BL-MCA			5,627,386		
IAB60501-16-I-Mods MP 0-3.5 NGPL Interconnect-MCA			5,542,012		
SDB92002-8-Replace MP 10.8-12.8 Yankton 2nd BL-MCA MNB67702-4-H-Mods MP 3.27-6.3 St Michael 2nd-MCA			5,210,785 522,074		
M520B-26-I-Mods29 Ogden-Vent B			522,071	22,385,834	
M560C-24-I-Mods MP 3.4-46 SSC-Paullina C-MCA				19,334,520	
M600D-30-I-Mods Clifton-Beatrice D M530B-26-I-Mods30 Oakland-Ogden B-MCA				18,322,825 18,097,796	
Approved Plan for A2 - 2031				17,939,402	
M580C-30-I-Mods27 Palmyra-Oakland C-MCA				17,057,149	
M471B-12-I-Mods MP 76-159 Paullina-Aberdeen-MCA M855C-30-Mods26 Coyanosa-Kermit-MCA (accelerated to 2023)				15,701,595 15,239,484	
M730B-24-I-Mods32 Sublette-Fowler				12,094,842	
M670E-30-I-Mods27 Mullinville-Macksville E-MCA				10,000,000	
M710B-20-I-Mods30 Holcomb-Kalvesta B				9,741,398	
M580B-26-I-Mods Palmyra-Oakland B Iowa M670D-30-I-Mods28 Mullinville-Macksville D				9,418,097 9,245,654	
MNB83701-6-I-Mods MP 8.9-9.2 Springfield BL-MCA				9,057,946	
OKG33902-16-I-Mods30 Hemphill Loop				8,571,550	
M610B-20-I-Mods31 Albert-Bushton M850B-16-I-Mods MP 0-16 Andrews-MCA				7,988,606 7,695,598	
M725B-24-I-Mods32 Fowler-Mullinville				7,688,841	
MNB65101-8-I-Mods MP 0-16.5 Morris-MCA				7,193,275	
TXG54801-12-I-Mods MP 0-18.9 Shamrock-MCA				7,034,125	
M500B-26-I-Mods29 Ventura-Faribault B-Ventura Portion M686B-20-I-Mods33 PEP-Mullinville				6,471,046 6,175,297	
M530B Guthrie Center CS Launcher Receiver Mods				5,500,000	
TXG52002-20-I-Mods33 Shamrock Loop				4,949,573	
TXG56302-16-I-Mods33 Hemphill 2 Loop IAB88401-16-I-Mods32 Cedar Rapids				4,666,452 4,619,174	
WIB24001-16-I-Mods27 Madison-MCA				4,519,174	
M835B Seminole CS Launcher Receiver Mods				4,350,000	
M470B MP 27.45 Launcher Receiver Mods				4,335,016	
M510C Earlville CS Launcher Receiver Mods M532B Belleville CS Launcher Receiver Mods				4,335,016 4,335,016	
M530D Guthrie Center CS Launcher Receiver Mods				4,335,016	
M530C Guthrie Center CS Launcher Receiver Mods				4,335,016	
M810B MP 41.13 Launcher Receiver Mods M680D Beaver CS-MP 50.74-Launcher Receiver Mods				4,335,016 4,200,000	
TXG53203-16-I-Mods Hemphill CO 2 Loop				4,200,000	
TXG52002-12-I-Mods Shamrock GL Loop				4,034,849	
IAB47601-6-I-Mods MP 0-11.9 Bristow BL-MCA MNB91901-8-I-Mods MP 0-11 Princeton Tie-over				4,021,536 3,818,793	
				3,010,793	

Project Description	2024	2025	2026	2027 - 2033	10-Year 2024 - 2033
WIB15801-4-I-Mods MP 9-26 Arlington BL-MCA	1			3,818,793	2024 2033
MNB67702-6-I-Mods MP 6.3-7.7 St Michael BL-MCA				3,818,793	
KSB81401-16-I-Mods33 Jayhawk Plant				3,660,862	
TXG52003-16-I-Mods Shamrock GL Loop				3,530,493	
TXG53202-12-I-Mods Mathers Ranch-Hemhill CO 1				3,530,493	
TXG53203-20-I-Mods Hemphill CO 2 Loop MNB72902-8-I-Mods MP 0-12.5 Alexandria 2nd-MCA				3,530,493 3,334,464	
KSB77101-12-I-Mods28 Mullinville to Dodge City				3,272,166	
IAB60502-16-I-Mods MP 0-3 NGPL IC-MCA				3,262,603	
IAB71901-16-I-Mods MP 0-4.3 Waterloo BL-MCA				3,136,641	
OKG51601-16-X-I-Mods30 Esperanza				3,127,236	
M452A-12-I-Mods MP 0-1.6 Rosemount Jct-St Paul-MCA				3,024,816	
MNB96701-12-I-Mods MP 0-4.2 Flint Hills-MCA				3,024,816	
NEB57901-10-I-Mods MP 0-13 Sheldon Power Plant-MCA				3,024,816	
NEB53002-8-I-Mods MP 0-16 Blair Cargill BL-MCA				3,024,816	
WIB14801-6-I-Mods Lady Smith BL				2,995,652	
M680C MP 50.69 Launcher Receiver Mods M770C MP 46.2 Launcher Receiver Mods				2,995,652 2,995,652	
M883B Bakersfield CS Launcher Receiver Mods				2,995,652	
IAB62501-10-I-Mods MP 7.9-50 Grinnell				2,993,018	
IAB66002-10-I-Mods MP 0-9 Ames 2nd-MCA				2,968,024	
MNB65801-6-I-Mods MP 0-2 Virginia				2,866,902	
MNB78401-6-I-Mods MP 0-18.5 Mora BL-MCA				2,491,532	
M433B MP 70.25 Launcher Receiver Mods				2,250,000	
WIB18601 MP 32.43 Launcher Receiver Mods				2,250,000	
MNB72701 MP 35.34 Launcher Receiver Mods				2,250,000	
M770D Beaver CS Receiver Mods				1,497,826	
MNB67802-6-H-Mods MP 0-1.0 Dayton 2nd BL-MCA				1,433,451	
SDB92002-8-H-Mods MP 29.4-29.8 Yankton 2nd BL-MCA M500E-36-I-Mods MP 0-28.2 Ventura-Farmington-MCA				1,100,000 1,000,000	
SDB92002-8-H-Mods MP 4.47-4.52 Yankton 2nd BL-MCA				1,000,000	
MNB83801-12-H-Mods MP 0-0.1 Faribault-MCA				950,000	
TXM85302-24-I-Mods Trans Pecos Lateral				758,170	
WIB14701-4-H-Mods MP 0-8.5 Wisconsin Dells				750,000	
TXM85301-24-I-Mods Valero Interconnect				505,447	
Subtotal: Pipeline Assessments	53,929,719	62,092,867	44,410,546	431,652,772	592,085,904
Compression Replacement					
Paullina Horsepower Replacement	41 244 002				
North Branch 1-4 Replacement Compression Garner LNG MCC-4160 Volt	41,344,992 2,075,448				
Brownfield Compressor Replacement	2,075,448				
AM-Waterloo MCC Replacement					
Claude Turbine MCC					
AM-Alexandria MCC					
Ogden Horizontal Compression Replacement					
Beaver 15-18 Replacement Compression	5,077,502	35,002,241			
Spraberry Compressor Units 4 and 5 Replacement	4,971,275	12,437,203			
North Branch 1-4 Replacement Compression - Contingency	2,364,142				
Spraberry 8 and 10 Replacement Compression		17,157,452	25.0		
Ventura 14-15 Replacement Compression			35,044,915		
Purchase 2C 21 Perchasers of Companying		4,955,104		20.070.057	
Bushton 26-31 Replacement Compression		4,955,104 4,955,104	29,915,383	39,879,057	
Approved Plan for A3 - 2033				62,797,825	
Approved Plan for A3 - 2033 Wrenshall Replacement Compression				62,797,825 60,013,611	
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression				62,797,825 60,013,611 60,002,407	
Approved Plan for A3 - 2033 Wrenshall Replacement Compression				62,797,825 60,013,611	
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Beatrice 24-25 Replacement Compression				62,797,825 60,013,611 60,002,407 40,000,008	
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Beatrice 24-25 Replacement Compression Plainview Unit 1 Replacement Compression				62,797,825 60,013,611 60,002,407 40,000,008 30,075,302	
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Beatrice 24-25 Replacement Compression Plainview Unit 1 Replacement Compression Pampa Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Macksville Unit 1 Replacement Compression				62,797,825 60,013,611 60,002,407 40,000,008 30,075,302 30,075,302 29,997,550 29,994,341	
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Beatrice 24-25 Replacement Compression Plainview Unit 1 Replacement Compression Pampa Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Macksville Unit 1 Replacement Compression Bushton 23-25 Replacement Compression		4,955,104	29,915,383	62,797,825 60,013,611 60,002,407 40,000,008 30,075,302 29,997,550 29,994,341 29,945,323	
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Beatrice 24-25 Replacement Compression Plainview Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Macksville Unit 1 Replacement Compression Bushton 23-25 Replacement Compression Subtoda: Compression Replacement	55,833,359			62,797,825 60,013,611 60,002,407 40,000,008 30,075,302 30,075,302 29,997,550 29,994,341	628,081,690
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Beatrice 24-25 Replacement Compression Plainview Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Bushton 23-25 Replacement Compression Subtotal: Compression Replacement LNG Replacement		4,955,104	29,915,383	62,797,825 60,013,611 60,002,407 40,000,008 30,075,302 29,997,550 29,994,341 29,945,323	628,081,690
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Beatrice 24-25 Replacement Compression Plainview Unit 1 Replacement Compression Pampa Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Macksville Unit 1 Replacement Compression Bushton 23-25 Replacement Compression Subtotal: Compression Replacement LNG Replacement Garner Refrigeration Compressor, Cold Box, and Meter Replacement	55,833,359 15,147,843	4,955,104	29,915,383	62,797,825 60,013,611 60,002,407 40,000,008 30,075,302 29,997,550 29,994,341 29,945,323	628,081,690
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Peatrice 24-25 Replacement Compression Plainview Unit 1 Replacement Compression Pampa Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Macksville Unit 1 Replacement Compression Bushton 23-25 Replacement Compression Subtotal: Compression Replacement LNG Replacement Compressor, Cold Box, and Meter Replacement AM-Garner LNG MCC - 480 volt	15,147,843	4,955,104	29,915,383	62,797,825 60,013,611 60,002,407 40,000,008 30,075,302 29,997,550 29,994,341 29,945,323	628,081,690
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Paarine 24-25 Replacement Compression Pampa Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Macksville Unit 1 Replacement Compression Bushton 23-25 Replacement Compression Subtotal: Compression Replacement LNG Replacement Garner Refrigeration Compressor, Cold Box, and Meter Replacement AM-Garner LNG MCC - 480 volt Garner Vaporizer Stack Modification	15,147,843 995,157	4,955,104 74,507,104	29,915,383 64,960,297	62,797,825 60,013,611 60,002,407 40,000,008 30,075,302 29,997,550 29,994,341 29,945,323	628,081,690
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Paarice 24-25 Replacement Compression Pampa Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Macksville Unit 1 Replacement Compression Macksville Unit 1 Replacement Compression Bushton 23-25 Replacement Compression Subtotal: Compression Replacement LNG Replacement Garner Refrigeration Compressor, Cold Box, and Meter Replacement AM-Garner LNG MCC - 480 volt Garner Vaporizer Stack Modification Wrenshall Vap Replacements A B C	15,147,843	4,955,104	29,915,383 64,960,297 12,663,056	62,797,825 60,013,611 60,002,407 40,000,008 30,075,302 29,997,550 29,994,341 29,945,323	628,081,690
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Plainview Unit 1 Replacement Compression Pampa Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Macksville Unit 1 Replacement Compression Bushton 23-25 Replacement Compression Subtotal: Compression Replacement LNG Replacement Garner Refrigeration Compressor, Cold Box, and Meter Replacement AM-Garner LNG MCC - 480 volt Garner Vaporizer Stack Modification	15,147,843 995,157	4,955,104 74,507,104	29,915,383 64,960,297	62,797,825 60,013,611 60,002,407 40,000,008 30,075,302 29,997,550 29,994,341 29,945,323	628,081,690
Approved Plan for A3 - 2033 Wrenshall Replacement Compression Clifton 27-31 Replacement Compression Beatrice 24-25 Replacement Compression Plainview Unit 1 Replacement Compression Pampa Unit 1 Replacement Compression Claude Unit 1 Replacement Compression Macksville Unit 1 Replacement Compression Subtotal: Compression Replacement LNG Replacement Garner Refrigeration Compressor, Cold Box, and Meter Replacement AM-Garner LNG MCC - 480 volt Garner Vaporizer Stack Modification Wrenshall Vap Replacements A B C Wrenshall Liquid Nitrogen Tank Replacement	15,147,843 995,157	4,955,104 74,507,104	29,915,383 64,960,297 12,663,056	62,797,825 60,013,611 60,002,407 40,000,008 30,075,302 29,997,550 29,997,550 29,994,341 29,945,323 432,780,930	628,081,690

Project Description	2024	2025	2026	2027 - 2033	10-Year
	2024	2025	2020	2027 - 2033	2024 - 2033
Underground Storage PHMSA Lyons UGS Gas Storage Lease Acquisitions					
Redfield GSLA Acquisitions					
Lyons Underground Storage Treatment Facility - PRELIM	34,183	3,858,303	40,406,851	35,413,961	
Cunningham UGS Gas Storage Lease Acquisition Redfield Broderick 16	693,448				
Cunningham Northeast Containment System Downhole	000,440	15,003,442			
Redfield McCarthy No. 3 Disposal Well Downhole		7,277,832	8,525,693		
Cunningham Northeast Containment System Surface Facilities Redfield - New I W Wells		5,955,189	8 078 000	26,936,106	
Approved Plan for A5 - 2033			8,978,000	5,576,978	
Subtotal: Underground Storage	727,631	32,094,767	57,910,545	68,135,422	158,868,365
Vintage Pipeline Replacement					
IAB65001 Des Moines A Branch Line Abandoment M500A Ventura to Farmington Abandonment	2,214,872	2,557,673	76,657,966	50,577,999	
M520A Ogden to Ventura Abandonment	2,214,072	2,557,675	10,031,500	30,377,333	
M561A South Sioux City-To-Sioux Falls Abandonment	1,351,963				
Lake City Branch Line Abandonment					
Plains System Line Replacement Auburn Branch Line Abandonment					
Columbus Vintage Pipe Replacement - NEB52901	5,537,952	20,285,843			
Eagle Grove Branch Line Replacement - Prelim	2,853,691				
Mason City Vintage Pipe Replacement - IAB72001		10,250,001			
Lake Mills Vintage Pipe Replacement - IAB73801 New Prague Vintage Pipe Replacement - MNB84501		5,605,137 2,281,889			
Mankato Vintage Pipe Replacement - MNB83001		2,201,005		66,252,666	
Yankton Vintage Pipe Replacement - SDB92001				58,451,228	
New Ulm Vintage Pipe Replacement - MNB88301				47,355,484	
Worthington Vintage Pipe Replacement - MNB87001 LeSueur Vintage Pipe Replacement - MNB84201				44,651,256 41,151,636	
Blair Vintage Pipe Replacement - NEB53001				37,201,146	
Schuyler Vintage Pipe Replacement - NEB41701				33,150,994	
BRITT VINTAGE PIPE REPLACEMENT - IAB71301				29,351,125	
Beemer Vintage Pipe Replacement - NEB55001				24,220,202 19,734,186	
Audubon Vintage Pipe Replacement - IAB63001 Ashgrove Vintage Pipe Replacement - NEB47701				19,354,382	
M725A, M730A Mullinville to Sublette Abandonment				17,974,017	
Hawarden Vintage Pipe Replacement - SDB94301				17,501,569	
Avoca Vintage Pipe Replacement - IAB62301 Belle Plaine Vintage Pipe Replacement - MNB84401				17,350,914 14,401,099	
Jefferson Vintage Pipe Replacement - IAB64001				10,451,196	
Fort Dodge Vintage Pipe Replacement - IAB69401				10,200,098	
Kingsley Vintage Pipe Replacement - IAB75401				9,051,029	
HDI Yankton Vintage Pipe Replacement - SDB92011 Northwood Vintage Pipe Replacement - IAB73501				8,240,061 7,922,294	
Milford Vintage Pipe Replacement - IAB77201				6,001,031	
Bancroft Vintage Pipe Replacement - NEB56201				4,700,977	
Meade BL - KSB21801 Abandonment	11 050 517	44 240 202	76 657 067	285,856	777 402 602
Subtotal: Vintage Pipeline Replacement MAOP Reconfirmation	11,958,517	41,240,392	76,657,967	597,325,726	727,182,603
MNB59201-6-I-Replace MP 0.0-1.2 Paynesville-MCA					
M570B-18-Replace MP 59.5-60.9 Hooper-Sioux City-MR					
WIB14801 Ladysmith Branch Line Replacement Milepost 1.15 IAB43901-4-Replace MP 5.2-5.4 Onawa BL-MCA					
MNB86801-6-Replace MP 2.8-3.0 White Bear Lake BL-CLS-MR					
WIB14801 Ladysmith Branch Line Replacement Milepost 2.60					
WIB14801 Ladysmith Branch Line Replacement Milepost 19.10					
M836B-16-Replace MP 37.8-38.0 Sid Richardson IC-Hobbs Discharge-MCA-MR M836B-16-Replace MP 9.3-9.7 Sid Richardson IC-Hobbs Discharge-MCA-MR	913,292			3,015,887	
M771B-30-PT-MP 2.9-3.8 Dumas-Sunray B-MCA-MR	12,335,844			3,013,887	
MNB65101-6-Replace Morris-CLS	11,531,046				
IAB62501-10-Replace - MP13.7-33.13 - Grinnell	9,018,346				
M520C-30-Replace MP 49.6-50.0 Ogden-Ventura-MCA-MR M520C-30-Replace MP 27.9-28.5 Ogden-Ventura-MCA-MR	5,176,136 5,121,715				
M511B-20-Replace MP 6.5-6.7 Dubuque TBS 4-Galena-MCA-MR	4,388,159				
M500B-26-Replace MP 85.7-86.1 Ventura-Farmington-MR	3,722,449				
M511B-20-Replace MP 8.7-9.1 Dubuque TBS 4-Galena-MCA-MR	3,272,538				
IAB56501-6-Replace MP 16.5-16.9 Vinton BL-MR	3,209,099				
WIB11901-6-Replace MP 26-45 Tomah WIB11901-8-Replace MP 10.6-11.0 Tomah BL-MCA-MR	3,001,671 2,804,951				
M500B-26-Replace MP 80.3-80.5 Ventura-Farmington-MCA-MR	2,467,378				
IAB69701-6-Replace MP 10.0-10.3 Iowa Falls BL-MCA-MR	1,485,344				
WIB11901-10-Replace MP 3.9-4.2 Tomah BL-MCA-MR	472,675				
Grinnell Replacement	230,902	16,099,927			
IVI45UB-24-Replace IVIP 53.8-65.8 Farmington-INB-IVILA-IVIR		6,889,281			
M450B-24-Replace MP 63.8-65.8 Farmington-NB-MCA-MR M530B-26-Replace MP 22.1-23.2 Oakland-Ogden-MCA-MR					
M530B-26-Replace MP 22.1-23.2 Oakland-Ogden-MCA-MR M580B-26-PT-MP 37.8-38.8 Palmyra-Oakland B-MCA-MR		6,000,018			
M530B-26-Replace MP 22.1-23.2 Oakland-Ogden-MCA-MR M580B-26-PT-MP 37.8-38.8 Palmyra-Oakland B-MCA-MR M470B-16-Replace MP 36.7-37.1 Paullina-Welcome-MCA-MR		3,207,800			
M530B-26-Replace MP 22.1-23.2 Oakland-Ogden-MCA-MR M580B-26-PT-MP 37.8-38.8 Palmyra-Oakland B-MCA-MR M470B-16-Replace MP 36.7-37.1 Paullina-Welcome-MCA-MR M460B-20-PT-MP 79.6-79.9 Welcome-Mpls TBS 1P-MCA-MR		3,207,800 3,002,429			
M530B-26-Replace MP 22.1-23.2 Oakland-Ogden-MCA-MR M580B-26-PT-MP 37.8-38.8 Palmyra-Oakland B-MCA-MR M470B-16-Replace MP 36.7-37.1 Paullina-Welcome-MCA-MR M460B-20-PT-MP 79.6-79.9 Welcome-Mpls TBS 1P-MCA-MR MNB78401-6-Replace MP 3.1-3.4 Mora BL-MCA-MR		3,207,800 3,002,429 1,900,281			
M530B-26-Replace MP 22.1-23.2 Oakland-Ogden-MCA-MR M580B-26-PT-MP 37.8-38.8 Palmyra-Oakland B-MCA-MR M470B-16-Replace MP 36.7-37.1 Paullina-Welcome-MCA-MR M460B-20-PT-MP 79.6-79.9 Welcome-Mpls TBS 1P-MCA-MR		3,207,800 3,002,429			

Project Description	2024	2025	2026	2027 - 2033	10-Year 2024 - 2033
M521C-26-PT-MP 52.8-53.4 Ogden-Waterloo C-HCA-MR		999,850			
M580B-26-PT-MP 31.8-31.9 Palmyra-Oakland B-MCA-MR		800,576			
M460B-20-PT-MP 1.9-2.3 Welcome-MpIs TBS 1P-MCA-MR		700,957			
MNB75601-12-PT-MP 23.0-23.4 Willmar BL-MCA-MR M119B-20-PT-MP 14.7-15.2 Ogden-Redfield B-MCA-MR		501,217 500,065			
MNB87701-8-PT-MP 20.41-25.0 Elk River BL-MCA-MR		500,000			
MNB87701-8-PT-MP 19.77-20.28 Elk River BL-MCA-MR		200,000			
M530C-30-Replace MP 22.3-23.7 Oakland-Ogden-MCA-MR			9,002,211		
WIB11901-10-Replace MP 1.1-1.7 Tomah BL-MR			6,794,176		
M521C-26-PT-MP 27.5-28.1 Ogden-Waterloo C-MCA-MR			5,502,069		
IAB79501-6-Replace MP 1.1-3.5 Tipton BL-MR			5,012,456		
M510B-16-Replace MP 47.9-48.1 Waterloo-Dubuque TBS 4-MCA-MR			5,012,453		
M521B-20-Replace MP 27.6-28.0 Ogden-Waterloo-MCA-MR IAB67101-10-Replace MP 33.9-34.3 Charles City BL-MCA-MR			4,002,355 3,003,117		
M520B-20-Replace MP 27.9-28.3 Ogden-Ventura-MCA-MR			3,003,117		
IAB54001-4-Replace Class 3 Anamosa			3,001,122		
M510B-16-Replace MP 9.1-9.6 Waterloo-Dubuque TBS 4-MCA-MR			2,701,287		
M471B-20-Replace MP 80.9-81.2 Paullina-Aberdeen-MCA-MR			2,500,659		
MNB77501-16-Replace MP 50.5-50.9 MN IC BL-MCA-MR			2,006,499		
MNB75601-8-Replace MP 99.8-100.1 Willmar BL-MR			1,503,293		
IAB67101-10-Replace MP 0.4-0.7 Charles City BL-MCA-MR			1,490,930		
IAB67101-10-Replace MP 5.6-6.1 Charles City BL-MCA-MR			1,490,922		
M521B-20-Replace MP 52.9-53.3 Ogden-Waterloo-MR			1,003,381		
MNB87701-20-PT-MP 19.73-19.77 Elk River BL-MCA-MR			751,276		
MNB75601-12-PT-MP 17.6-17.8 Willmar BL-MCA-MR M500C-30-PT-MP 37.2-37.9 Ventura-Farmington C-MCA-MR			501,541 501,223		
M500C-30-P1-MP 37.2-37.9 Ventura-Farmington C-MCA-MR M500C-30-PT-MP 80.7-81.3 Ventura-Farmington C-MCA-MR			501,223		
MS0C-26-PT-MP 14.1-14.8 Tescott-Clifton C-MCA-MR			500,872		
MNB83201-6-PT-MP 0.0-0.2 Mankato BL from MNM80501-MCA-MR			400,566		
MNB87001-6-Repace Replace Worthington-CLS			274,816		
MNB77701-6-PT-MP 1.0-2.1 Hudson BL-MCA-MR			251,160		
Approved Plan for A7 - 2033				20,037,488	
M450B-24-Replace MP 59.7-61.3 Farmington-NB-MR				14,908,911	
MNB77701-WIB10201-6-Replace MP1-3.1 Hudson BL-MCA				11,500,000	
M450B-24-Replace MP 48-49.3 Farmington-NB-MCA-MR				8,736,067	
IAB71801-10-I-Mods MP 0-7.5 Waverly BL-MCA-MR				6,264,304	
M460B-16-Replace MP 49.5-50.8 Welcome-Mpls 1P-MCA-MR				6,017,223	
M640D-30-PT-MP 30.1-30.8 Bushton-Tescott D-MCA-MR				6,004,781	
MNB86701-8-Replace MP 0.0-2.9 Stillwater Oak Park BL-CLS-MR M860B-30-Replace MP 16.4-16.8 Spraberry-Florey-MCA-MR				5,999,048 5,491,404	
M820B-26-Replace MP 6.5-8.1 Hobbs-Plains-MR				5,200,000	
M640C-24-Replace MP 30.0-30.6 Bushton-Tescott-MCA-MR				4,992,186	
M500B-24-Replace MP 64.1-64.6 Ventura-Farmington-MCA-MR				4,767,140	
M500B-26-Replace MP 37.2-37.7 Ventura-Farmington-MCA-MR				4,767,138	
M500C-30-Replace MP 64.4-65.0 Ventura-Farmington-MCA-MR				4,741,782	
M500C-30-Replace MP 80.7-81.3 Ventura-Farmington-MCA-MR				4,741,782	
M500C-30-Replace MP 39.0-39.5 Ventura-Farmington-MCA-MR				4,741,723	
M590B-24-Replace MP 38.5-39.1 Beatrice-Palmyra-MCA-MR				4,500,000	
M590C-26-Replace MP 39.1-39.6 Beatrice-Palmyra-MCA-MR				4,500,000	
M630B-24-Replace MP 14.2-14.8 Tescott-Clifton-MCA-MR M820B-26-Replace MP 0.0-0.4 Hobbs-Plains-MCA-MR				4,500,000 4,500,000	
IAB55701-6-Replace MP 13.1-13.3 Tama BL-MCA-MR				4,304,138	
MNB87501-6-Replace MP 3.4-3.6 Sherburn TBS 2 BL-MCA-MR				4,045,593	
WIB18101-6-Replacement Viola				4,033,462	
M471B-20-Replace MP 15.4-15.9 Paullina-Aberdeen-MCA-MR				4,000,000	
M581B-20-Replace MP 13.0-13.4 Palmyra-Hooper-MCA-MR				4,000,000	
WIB14701-4-Replace MP 2.7-5.4 Wisconsin Dells-MCA-MR				3,986,329	
M580B-26-Replace MP 37.9-38.7 Palmyra-Oakland-MCA-MR				3,979,912	
M580C-30-Replace MP 30.6-31.2 Palmyra-Oakland-MCA-MR				3,979,912	
M580B-26-Replace MP 30.6-31.2 Palmyra-Oakland-MCA-MR				3,482,423	
MIB11801-4-Replace MP 1.4-3.6 Hancock-MCA MNB81201-8-Replace MP 1.9-2.4 Austin-MCA-MR				3,376,733 3,090,498	
MNB81201-8-Replace MP 1.9-2.4 Austin-INCA-INK MNB77501-16-Replace MP 31.7-32.1 MN IC BL-MCA-MR				3,090,498	
IAB56901-12-I-Mods MP 0-15 Decorah BL-MCA-MR				3,023,318	
MNB83702-8-Replace MP 8.9-9.2 Springfield 2nd BL-MCA				3,024,810	
M581B-18-Replace MP 61.7-62.1 Palmyra-Hooper-MCA-MR				3,018,312	
MNB72901-8-Replace MP 37.0-37.5 Alexandria BL-MR				3,014,629	
IAB56501-6-Replace MP 19.1-19.3 Vinton BL-MR				3,004,363	
M590D-30-Replace MP 38.9-39.5 Beatrice-Palmyra-MCA-MR				3,002,748	
M471B-20-Replace MP 82.9-83.2 Paullina-Aberdeen-MCA-MR				3,000,000	
M771B-30-PT-MP 3.0-6.4 Dumas-Sunray-MCA-MR				2,999,866	
MNB72901-8-Replace MP 11.9-12.2 Alexandria BL-MCA-MR				2,999,524	
MNB79201-10-Replace MP 9.1-9.8 Winona BL-MCA-MR				2,999,524	
WIB14601-12-Replace MP 18.5-18.9 New Lisbon BL-MCA-MR				2,995,311	
WIB11901-8-Replace MP 8.2-8.6 Tomah BL-MR M883B-20-Replace MP 17.3-17.6 Mitchell-Plymouth-MCA-MR				2,992,677 2,989,747	
WI838-20-Replace MP 17.3-17.6 Mitchell-Plymouth-MCA-MR WIB14601-12-Replace MP 80.3-80.5 New Lisbon BL-MR				2,989,747 2,989,747	
MNB59201-4-Replace MP 24.6-25.5 Paynesville BL-MCA				2,989,747	
IAB54201-6-Replace MP 17.1-17.2 Hampton BL-MCA-MR				2,866,902	
MNB75601-8-Replace MP 101.5-101.9 Willmar BL-MCA-MR				2,499,604	
IAB54001-6-Replace Anamosa-CLS-MR				2,479,366	
•					
MNB61801-4-Replace MP 10-11 Rockford-MCA				2,461,040	
MNB61801-4-Replace MP 10-11 Rockford-MCA IAB55302-6-Replace MP 1.9-2.0 Clarksville BL-MCA				2,461,040 2,389,085	

Ide3902-6-Replace MP 5.4 Harlsn Loop-MCA 2,389,082 Ide37901-6-Replace MP 13-51-31 Forbig B. MCA MR 2,389,082 Ide37901-6-Replace MP 13-51-31 Forbig B. MCA MR 2,021,279 WIB18201 Father Prinzer MCA MR 2,021,279 WIB18201 Father Prinzer MCA MR 2,021,279 WIB18201 Father Prinzer MCA MR 2,021,279 WIB18201 Father Brinzer MCA MR 2,021,279 WIB18201 Father Brinzer MCA MR 1,011,264 MR05201-Replace MP 13-51-31 FORD 1,011,264 MR05201-Replace MP 26-32 Shelon Pur Pt BL-MCA MR 1,050,024 MR05201-Replace MP 3-53-34,54 Willmar BL-MCA MR 1,506,424 MR05201-Benglace MP 3-53-34,55 Willmar BL-MCA MR 1,506,424 MR05201-Benglace MP 3-53-34,55 Willmar BL-MCA MR 1,500,000 MR05201-Benglace MP 3-53-47,55 Bonc TOr-Paullina B-MR 1,500,000 MR05201-Benglace MP 3-35,1000,000 1,500,000 1,500,000 MR05201-Benglace MP 1-3,100,000,000 1,300,000	5 1 7 5 3 8 3 0 6 6 7 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0
IAP37201-6-Replacement MP 2-2.3 Menchestre IL-MC-MM 2.399.881 IAP32001-8-Replace MP 13-5.137 Grocking BL-MC-AMR 2.201.24 IAP32001-8-Replace MP 13-5.137 Grocking BL-MC-AMR 2.201.24 WIB13010-Replace MP 13-5.137 Grocking BL-MC-AMR 1.911.26 WIB25011-Replace MP 16-7.5 Sheldon Part BL-MC-AMR 1.901.26 NHB82501-Replace MP 16-7.5 Sheldon Part BL-MC-AMR 1.501.56 NHB82501-Replace MP 16-2.0 Minarbal-MCA 1.501.57 NHB82501-Replace MP 16-2.0 Minarbal-MCA-MR 1.502.67 NHB82501-Replace MP 3-2.3.5 Lytten BL-MCA-MR 1.502.62 NHB82501-Replace MP 3-2.5.1 Ontore BL-MCA-MR 1.502.00 NHB82501-Replace MP 3-2.5.2 Diage BL-MCA-MR 1.502.00 NHB82501-Replace MP 3-2.5.1 Ontore Chr.Paulina B-MR 1.502.00 NHB82501-Replace MP 3-2.5.4 Harian BL-MCA-MR 1.502.00 NHB8	1 7 5 3 8 8 3 0 6 6 7 6 1 0 0 0 0 0 0 0 0 0 2 2 2 4 4 0 0 0 0 0 0
SDB19101-Fenjare MP 13.61.37 Broxing BL-MCA-MR202.279WB13001-Fenjare MP 7.6.7 9 Sheldon PwT BL-MCA-MR202.134WB25011-Repiare HW 7.6.7 9 Sheldon PwT BL-MCA-MR150.467WB52011-Repiare MP 7.6.7 9 Sheldon PwT BL-MCA-MR150.627WB52011-Repiare MP 7.6.7 9 Sheldon PwT BL-MCA-MR150.627WB52011-Repiare MP 3.6.2 Warrab-MCA150.627WB52011-Repiare MP 3.6.2 Warrab-MCA-MR150.627WB52011-Repiare MP 3.6.2 Warrab-MCA-MR150.627WB52011-Repiare MP 3.6.2 Warrab-MCA-MR150.627WB52011-Repiare MP 3.6.2 Warrab-MCA-MR150.000MS5011-Repiare MP 3.6.2 Warrab-MCA-MR150.000MS5011-Repiare MP 3.6.2 Warrab-MCA-MR150.000MS5011-Repiare MP 3.6.2 Stora City-Paulina B-MR150.000MS5011-Repiare MP 3.6.2 Stora City-Paulina B-MR150.000MS5011-Repiare MP 3.6.2 Stora City-Paulina B-MR150.000MS5011-Repiare MP 3.5.4 Stora City-Paulina B-MR150.000MS5011-Repiare MP 3.5.4 Stora City-Paulina B-MR150.000MS5011-Repiare MP 3.5.5 Stora City-Paulina B-MR150.000MS5011-Repiare MP 3.5.5 At Stora B-MCA-MR150.000MS5011-Repiare MP 3.5.5 At Stora B-MCA-MR150.000MS5011-Repiare MP 3.5.5 At Stora B-MCA-MR100.001	7 5 3 8 8 3 0 6 6 1 0 0 0 0 0 0 0 0 2 2 4 4 0 0 0 0 0 1 1 1 1 1 1 1
Will 1301- Feplace Portage-WCA.MR 2021, 342 Will 2302 Interwell 14 Relocation 1,999, 663 Will 2302 Interwell 14 Relocation 1,999, 664 Will 2302 Interwell 14 Relocation 1,999, 664 Will 2302 Interwell 14 Relocation 1,999, 664 Will 2302 Interwell 14 Relocation 1,500, 604 Will 2302 Interwell 14 Relocation 1,500, 604 Will 2302 Interwell 14 Relocation 1,300, 000 Middol 16 Replace MP 2353, 513 Soux City-Paulina B-MR 1,300, 000 Will 2302 Interwell 14 Relocation 1,300, 000 Middol 14 Replace MP 243, 251 Soux City-Paulina B-MR 1,300, 000 Will 2302 Interwell 14 Relocation 1,300, 000 Middol 14 Replace MP 243, 251 Soux City-Paulina B-MR 1,300, 000 Will 2302 Interwell 14 Relocation 1,300, 000 Middol 14 Replace MP 243, 251 Soux City-Paulina B-MR 1,300, 000 Will 2302 Interwell 14 Relocation 1,300, 000 Middol 14 Replace MP 243, 21,300, non terke MB 1,300, 000 <	5 3 8 3 3 0 6 7 6 6 1 0 0 0 0 0 0 2 2 4 4 0 0 0 0 0 0 1 1 0 8 1 1 6 6 6 6 9 9 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
WB12801 Platrewille 1 Reignation 1.9996.20 NB825014 Platrewille 1 Reignation 1.6946.77 NB850101-0 Pepiace MP 24.73 Steldon Pwr Bt BL-MCA-MR 1.6946.77 NB850104 Flatrewind MP 34.734.5 Lytton BL-MCA-MR 1.551.63 NB850104 Flatrewind PS 34.734.5 Lytton BL-MCA-MR 1.550.63 NB850104 Flatrewind PS 34.734.5 Lytton BL-MCA-MR 1.506.73 NB850104 Flatrewind PS 34.734.5 Lytton BL-MCA-MR 1.500.00 NB850104 Flatrewind PS 34.734.55.1 Volumon BL-MCA-MR 1.500.00 NB85010 Flatrewind PS 34.735.5 Stoux Clyt-Paullina B-MR 1.500.00 NB6501 Flatrewind PS 34.837.55.5 Stoux Clyt-Paullina B-MR 1.500.00 NB6501 Flatrewind PS 34.837.55.5 Stoux Clyt-Paullina B-MR 1.300.00 NB6501 Flatrewind PS 34.837.55.5 Stoux Clyt-Paullina B-MR 1.300.00 NB6501 Flatrewind PS 34.847.55.5 Stoux Clyt-Paullina B-MR 1.300.00 NB6501 Flatrewind PS 34.847.55.5 Stoux Clyt-Paullina B-MCA 1.345.30 NB6501 Flatrewind PS 34.847.55.5 Stoux Clyt-Paullina B-MCA 1.300.00 NB6501 Flatrewind PS 34.74.04.74.74 1.300.00 NB6501 Flatrewind PS 34.74.04.74.74.74 1.300.00 NB6501 Flatrewind PS 34.74.04.74.74.74.74.74.74.74.74.74.74.74.74.74	3 8 8 3 0 6 6 7 6 6 1 0 0 0 0 2 2 2 4 4 0 0 0 0 0 1 0 8 1 1 6 6 6 9 9 0 0 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
NBS 2010-10.Replace MP 26-29 Sheldon Pur Pt BL-MCA-MR 1594.07 NBS 2010-4.Replace MP 24.23.45 Lytton BL-MCA-MR 1551.06 NBS 2010-4.Replace MP 14.20 Unithon BL-MCA-MR 1550.05 NBS 2010-4.Replace MP 14.20 Unithon BL-MCA-MR 1504.03 NBS 2010-4.Replace MP 14.20 Unithon BL-MCA-MR 1500.00 NBS 2010-4.Replace MP 5.45 Store MR 1500.00 NBS 2010-4.Replace MP 5.25 Store Store MR 1500.00 NBS 2010-4.Replace MP 5.25 Store Store MR 1500.00 NBS 2010-4.Replace MP 5.25 Store Store MR 1500.00 NBS 2010-4.Replace MP 1.21 Store Creek BL-MCA 1500.00 NBS 2010-4.Replace MP 1.21 Store Creek BL-MCA 1500.00 NBS 2010-4.Replace MP 1.24 Store Creek BL-MCA 1437.33 NBS 2010-4.Replace MP 1.24.3 Grante Falls BL-MCA 1300.00 NBS 2010-4.Replace MP 1.24.3 Grante Falls BL-MCA-MR 1300.00 NBS 2010-4.Replace MP 1.24.3 Grante Falls BL-MCA-MR 1300.00 </td <td>3 0 6 7 7 6 1 0 0 0 0 0 2 2 4 4 0 0 0 0 0 1 1 0 8 1 1 6 6 6 6 9 9 0 0 0 1 1</td>	3 0 6 7 7 6 1 0 0 0 0 0 2 2 4 4 0 0 0 0 0 1 1 0 8 1 1 6 6 6 6 9 9 0 0 0 1 1
NNNEG3101-4-Replace MP 20-8-22.1 Marshall-MCA 1600,000 IA44501-6-Replace MP 18-2.0 Windom BL-MCA-MR 1551,667 NNNEGS01-6-Replace MP 49-51.54.6 Wilmore BL-MCA-MR 1506,427 IN18401-6-Replace MP 54.54.6 Wilmore BL-MCA-MR 1500,000 IA68501-Der Replace MP 54.55.6 Wilmore BL-MCA-MR 1500,000 IA685001-Der Moines JA Relocation 1500,000 IA685001-Der Moines JA Relocation 1500,000 IA685001-Ber MP 52.57.57 Sioux City-Paulina B-MR 1500,000 IS6001-Ber MP 20.848.75 Sioux City-Paulina B-MR 1500,000 IS6001-Fereplace MP 17.1.3 Corraite Fails BL-MCA 1437,333 INNESS011-Fereplace MP 17.1.3 Corraite Fails BL-MCA-MR 1300,000 IA653001-Fereplace MP 17.1.3 Corraite Fails BL-MCA-MR 1200,000 IA653001-Fereplace MP 13.45.147 Irams BL-MCA-MR 1200,000 IA653001-Fereplace MP 13.45.147 Irams BL-MCA-MR 1200,000 IA653001-Fereplace MP 13.45.147 Irams BL-MCA-MR 100,031 IA653001-Fereplace MP 13.45.147 Irams BL-MCA-MR 100,031 IA653001-Fereplace MP 13.65.157 NR 100,031 IA653001-Fereplace MP 13.64.147 Irams BL-MCA-MR 100,031 IA653001-Fereplace MP 13.64.558 Nr Isinland Corter BL-MCA-MR <	0 6 7 6 6 1 0 0 0 0 2 2 4 4 0 0 0 0 0 0 0 1 1 6 6 6 9 9 0 0 0 1 1 1 1
iAd4301-FReplacement 1551.00 W1B3201-FReplace MP 3.4.2.4.5. Informe BL-MCA-MR 1550.00 W1B3201-FReplace MP 3.4.2.6.5. Wilman BL-MCA-MR 1500.00 IAB68501 FREplace MP 3.4.2.6.5. Wilman BL-MCA-MR 1500.00 IAB68501 FREplace MP 3.4.2.6.5. Wilman BL-MCA-MR 1500.00 MS5081 -FReplace MP 3.6.4.2.5. Sioux City-Paullin B-MR 1500.00 MS5081 -FReplace MP 3.6.4.7.5. Sioux City-Paullin B-MR 1500.00 MS5081 -FReplace MP 3.6.4.7.5. Sioux City-Paullin B-MR 1500.00 MS5081 -FReplace MP 3.6.4.7.5. Sioux City-Paullin B-MR 1500.00 MS5091 -FReplace MP 3.2.1.3. Grante Falls BL-MCA 1437.33 MNB5091 -FReplace MP 3.2.4.5. Ditter Cirek BL-MCA 1,300.00 MS5091 -FReplace MP 3.2.4.5. Ditter Cirek BL-MCA-MR 1,200.00 MS5091 -FReplace MP 3.2.5.4. Harian BL-MCA-MR 1,200.00 MS5091 -FReplace MP 3.2.5.4. Harian BL-MCA-MR 1,000.00 MS5091 -FReplace MP 3.2.5.5. Harian BL-MCA-MR 1,000.00 MS5091 -FReplace MP 3.2.5. WILH Falls -LIX-MR 1,000.00 MS5091 -FReplace MP 3.5.0.5. Cithand Center BL-MCA-MR 1,000.00 MS5091 -FReplace MP 3.5.7. Sithand Center BL-MCA-MR 1,000.00 <td>6 7 6 1 0 0 0 2 2 4 4 0 0 0 0 0 0 0 0 1 1 6 6 6 9 9 0 0 1 1 1 1 1</td>	6 7 6 1 0 0 0 2 2 4 4 0 0 0 0 0 0 0 0 1 1 6 6 6 9 9 0 0 1 1 1 1 1
NNB6201-6-Replace MP 18-2.0 Windom EL-MCA-MR 157.097 WIB301-6-Replace MP 43-5.16 Willmore BL-MCA-MR 150.6427 NNB7501-10 Replace MP 54.3-5.6 Willmore BL-MCA-MR 150.0000 IA68401-6-Replace MP 5.29-5.73 S Sioux Chy-Paullina B-MR 150.0000 MB5010-Freplace MP 5.29-5.73 S Sioux Chy-Paullina B-MR 150.0000 IA685010-Freplace MP 17.18 Otter Creek BL-MCA 1437.333 IA685001-Freplace MP 2.49-5.73 S Sioux Chy-Paullina B-MR 130.0000 IA69001-Freplace MP 2.49-5.73 S Sioux Chy-Paullina B-MR 130.0000 IA69001-Freplace MP 2.43-3.00 seup-MCA-MR 130.0000 IA69001-Freplace MP 2.43-3.00 seup-MCA-MR 120.0000 IA69001-Freplace MP 13.41 ALF MR 120.0000 IA65001-Freplace MP 13.71.40 Drepstone BL-MCA-MR 120.0000 IA65001-Freplace MP 13.71.40 Drepstone BL-MCA-MR 120.0000 IA65001-Freplace MP 13.71.40 Drepstone BL-MCA-MR 10.001.01 IA66001-Freplace MP 13.71.40 Drepstone BL-MCA-MR 10.000.00 IA65001-Freplace MP 13.71.40 Drepstone BL-MCA-MR 10.000.00 IA66001-Freplace MP 13.71.40 Drepstone BL-MCA-MR 10.000.00 IA66001-Freplace MP 13.71.40 Drepstone BL-MCA-MR 10.000.00 IA66001-Freplace MP 13.71.50 D	7 6 1 0 0 0 0 2 2 2 4 4 0 0 0 0 0 0 1 1 6 6 6 9 9 0 0 1 1 1 1
WB1301-6-Replace MP 3-9-51 Monroe BL-MCA-MR 1506,822 NM875601-70-Replace MP 3-9-52 Osage BL-MCA-MR 1500,000 IA68601-6-Replace MP 5-0-52 Osage BL-MCA-MR 1500,000 IA68601-6-Replace MP 5-29-57 35 Sioux City-Paulina B-MR 1500,000 MS5001-16-Replace MP 5-29-57 35 Sioux City-Paulina B-MR 1500,000 MS6001-16-Replace MP 1-21.3 Granite Fails BL-MCA 1487,353 MS5001-6-Replace MP 1-21.3 Granite Fails BL-MCA 1384,773 IA65301-6-Replace MP 1-21.3 Granite Fails BL-MCA 1300,000 MS5001-6-Replace MP 1-21.3 Desup-MCA-MR 1300,000 IA65301-6-Replace MP 1-21.3 Desup-MCA-MR 1200,000 IA65301-6-Replace MP 1-21.3 Desup-MCA-MR 1200,000 IA65301-6-Replace MP 1-21.3 Bloomer-MCA-AR 1200,000 IA65301-6-Replace MP 1-21.3 Desup-MCA-MR 1000,001 IM85701-6-Replace MP 1-2.0 Little Fails BL-MCA-MR 1000,001 IA65601-6-Replace MP 1-2.0 Little Fails CLS-MR 1000,001 IA65601-6-Replace MP 1-2.0 Little Fails CLS-MR 1000,002 IA65601-1-6-Replace MP 1-2.0 Little Fails CLS-MR 1000,002 IA65601-1-6-Replace MP 1-2.0 Little Fails CLS-MR 1000,002 IA65601-1-6-Replace MP 1-2.0 Little Fails CLS-MR 1	6 1 0 0 0 0 2 2 4 4 0 0 0 0 1 1 6 6 6 9 9 0 0 1 1 1 1 1 1
iAd4401-6.Replace MP 5.05.2 Cage BL/MCA.MR 1500,000 MB65601 DEr Monies TA Relocation 1500,000 MB65601 DEr Monies TA Relocation 1500,000 MB65601 DER MP 5.25.5 Sloux City-Paulina B-MR 1,800,000 MB6001 E-Replace MP 1.2.1.3 Granite Fails BL-MCA 1,847,333 MB6101 DER MP 2.7.8.0 Sloux, City-Paulina B-MR 1,847,333 MB6201 E-Replace MP 1.2.1.3 Granite Fails BL-MCA 1,847,333 IABS3010 F-Replace MP 1.2.1.3 Granite Fails BL-MCA 1,867,974 IABS3010 F-Replace MP 1.2.1.3 Granite Fails BL-MCA 1,800,000 IABS3010 F-Replace MP 1.2.1.3 Desy-MCA-MR 1,200,000 IABS3010 F-Replace MP 1.2.1.3 Desy-MCA-MR 1,200,000 IABS3010 F-Replace MP 1.3.1.5 Bloomer-MCA-MR 1,000,000 IABS5001 F-Replace MP 1.3.2.1.5 Bloomer-MCA-MR 1,000,000 IMB57010 F-Replace MP 1.3.2.1.5 Bloomer-MCA-MR 1,000,000 IMB58701 F-Replace MP 1.3.2.1.5 Bloomer-MCA-MR 1,000,000 IMB5701 F-Replace MP 1.3.2.5 Bloomer-MCA-MR 1,000,000 IMB58701 F-Replace MP 1.3.2.5 Bloomer-MCA-MR 1,000,000 IMB58701 F-Replace MP 1.3.2.5 Bloomer-MCA-MR 1,000,000 IMB58701 F-Replace MP 1.3.2.5 Bloomer-MCA-MR 1,000,000 IMB5701 F-Replace MP 1.3.2.5 Bloomer-MCA-MR 1,000,000 IMB5701 F-Replace MP 1.3.2.5 Bloomer-MCA-MR 1,000,000 IMB58701 F-Replace MP	0 0 0 2 2 2 4 4 0 0 0 0 0 0 1 1 6 6 6 9 9 0 0 0 1 1 1 1 1
IAB6501 Des Moines 1A Relocation 1,500,000 MSG0B 1-E-Replace MP 3.4.9.5 S Sioux City-Paullina B-MR 1,500,000 IAB6901 E-Replace MP 3.4.9.5 S Sioux City-Paullina B-MR 1,437,533 IAB5101 E-Replace MP 1.2.1.8 Otter Creek BL-MCA 1,437,533 IAB5301 E-Replace MP 3.2.4.5 D (seuy PMCA-MR 1,364,794 IAB63901 E-Replace MP 1.3.7.1.6 O'Ipostone BL-MCA-MR 1,200,000 IAB55701 E-Replace MP 1.3.7.1.4 O'Ipostone BL-MCA-MR 1,200,000 IAB55701 E-Replace MP 1.3.7.1.4 O'Ipostone BL-MCA-MR 1,200,000 IAB65001 E-Replace MP 1.3.7.1.4 O'Ipostone BL-MCA-MR 1,200,000 IAB65001 E-Replace MP 1.3.7.1.4 O'Ipostone BL-MCA-MR 1,000,000 IAB65001 E-Replace MP 1.3.7.1.5 Blioomer-MCA-MR 1,000,000 IAB65001 E-Replace MP 1.2.0.2.3 Cedar Falls BL-CIS-MR 1,000,000 IMB1201 E-Replace MP 1.2.0.3 Cedar Falls BL-CIS-MR 1,000,000 IMB1201 E-Replace MP 1.5.7.3 Richhand Center BL-MCA-MR 1,000,000 IMB1201 E-Replace MP 1.5.7.5 Richhand Center BL-MCA-MR 1,00	0 0 2 2 4 4 0 0 0 0 1 1 6 6 6 9 9 0 0 1 1 1 1 1
NS60B-16-Replace MP 5.29-5.73 S Sioux City-Paulina B-MR 1,500,000 NS60B-16-Replace MP 1.2.13 Otar Citey-Paulina B-MR 1,437,033 NNB62D31-6-Replace MP 1.2.13 Granite Fails BL-MCA 1,437,033 NNB62D31-6-Replace MP 1.2.13 Granite Fails BL-MCA 1,300,000 IAS53101-3-Replace MP 3.2.3.50 Iosup-MCA-MR 1,300,000 IAS53101-3-Replace MP 3.2.1.50 Iosup-MCA-MR 1,200,000 IAS53101-3-Replace MP 1.2.1.3 Granite Fails BL-MCA-MR 1,200,000 IAS53010-6-Replace MP 1.2.1.50 Iosup-MCA-MR 1,200,000 IAS53011-6-Replace MP 1.2.1.51 Biomer-MCA-MR 1,000,001 IAS53011-6-Replace MP 1.2.0.1 Little Fails BL-MCA-MR 1,001,303 IAS50901-4-Replace MP 1.2.0.1 Little Fails L-MCA-MR 1,000,001 IAS50901-4-Replace MP 1.2.0.1 Little Fails L-MCA-MR 1,000,311 INB5701-6-Replace MP 1.2.0.1 Little Fails CL5-MR 1,000,301 INB5701-6-Replace MP 1.2.0.2 Little Fails L-MCA-MR 1,000,301 INB5701-6-Replace MP 1.2.2.0 Little Fails CL5-MR 1,000,301 <t< td=""><td>0 0 2 2 4 4 0 0 0 0 0 1 1 6 6 6 9 9 0 0 0 1 1 1 1</td></t<>	0 0 2 2 4 4 0 0 0 0 0 1 1 6 6 6 9 9 0 0 0 1 1 1 1
IA99001-6.Replace MP 1-7.1.8 Otter Creek BL-MCA 1.437.533 NNB62501-6.Replace MP 2.7.3 Granite Falls BL-MCA 1.364,793 IA653011-6.Replace MP 3.2.4.3 Granite Falls BL-MCA-MR 1.300,000 IA653011-6.Replace MP 3.4.2.3.50 Issup-MCA-MR 1.200,000 IA653011-6.Replace MP 1.4.0.1.4.7 Tama BL-MCA-MR 1.200,000 IA653011-6.Replace MP 1.4.6.1.4.7 Tama BL-MCA-MR 1.200,000 IA653011-6.Replace MP 1.3.2.1.5 Bloomer-MCA-MR 1.000,000 IA65301-6.Replace MP 2.1.9.2.1.5 Bloomer-MCA-MR 1.000,001 IA656801-8.Replace MP 2.1.9.2.1.5 Bloomer-MCA-MR 1.000,001 IA656801-8.Replace MP 2.1.9.2.1.5 Clow RR 1.000,001 IA55001-4.Replace MP 1.7.2.0 Little Falls CL5-MR 1.000,301 IM0185701-6.Replace MP 1.7.2.0 Little Falls CL5-MR 1.000,301 IM019201-6.Replace MP 1.7.2.0 Little Falls CL5-MR 1.000,302 IM019201-6.Replace MP 1.7.2.0 Little Falls CL5-MR 1.000,302 IM019201-6.Replace MP 1.7.2.0 Little Falls CL5-MR 1.000,002 IM01201-6.Replace MP 1.7.2.0 Litt	2 2 4 0 0 0 0 1 1 6 6 9 9 0 0 1 1 1 1 1
NNB62501-6.*eplace MP 1.2-1.3 Grante Falls BL-MCA 1347,532 IAB53101-3.*eplace MP 3.2-3.5 Jesup-MCA-MR 1,360,794 JA63301-6.*eplace MP 1.3.7.14.0 Pipestone BL-MCA-MR 1,200,000 JAB55701-6.*eplace MP 1.9.7.19.5 Harlan BL-CCS-MR 1,200,000 JA663001-6.*eplace MP 1.9.7.19.5 Harlan BL-CCS-MR 1,000,000 JAB65801-6.*eplace MP 2.0.2.3 Cedar Falls BL-CLS-MR 1,000,000 JA666001-8.*eplace MP 2.0.2.3 Cedar Falls BL-CLS-MR 1,000,911 JMB7001-6.*eplace MP 1.0.2.1.2 MLRA 1,000,911 JMB7701-6.*eplace MP 1.0.2.1.2 MLRA 1,000,911 JMB72001-6.*eplace MP 1.0.2.1 Uitte Falls-CLS-MR 1,000,911 JMB72001-6.*eplace MP 1.0.2.2 Ackiey BL-MCA-MR 1,000,911 JMB2301-6.*eplace MP 1.0.5.5 MR 1,000,912 JMB2301-6.*eplace MP 1.0.5.5 MR 1,000,912 JMB2301-6.*eplace MP 1.0.6.1.5 MR 1,000,913 JMB2301-6.*eplace MP 1.0.5.5 MR 1,000,914 JMB2301-6.*eplace MP 1.8.4.18.5 Mora BL-CLS-MR 1,000,914 JMB2301-6.*eplace MP 1.8.4.18.5 Mora BL-MCA-MR 999,841 JMB2301-6.*eplace MP 1.8.2.1 Markand INMOR BL-MCA-MR 999,841 JMB2301-6.*eplace MP 2.5.3 J Markand INMOR BL-MCA-MR 999,841 JMB2301-6.*eplace MP 2.5.4 SL MARA 999,	2 4 0 0 0 0 1 1 6 6 6 9 9 0 0 1 1 1 1 1
IABS3101-3-Replace MP 3-27-3.50 Iesup-MCA-MR 1,364,792 IAB63301-6-Replace MP 3-7-3.01 Pipestone BL-MCA-MR 1,200,000 IABS5701-6-Replace MP 13-7-14.0 Pipestone BL-MCA-MR 1,200,000 IABS3701-6-Replace MP 13-7-14.0 Pipestone BL-MCA-MR 1,200,000 IABS3701-6-Replace MP 21.3-7.15. Biomer-MCA-MR 1,200,000 IABS3701-6-Replace MP 21.3-7.15. Biomer-MCA-MR 1,010,300 IABS6601-8-Replace MP 21.3-7.15. Biomer-MCA-MR 1,000,714 IABS5701-6-Replace MP 21.3-7.15. Biomer-MCA-MR 1,000,714 IABS5701-6-Replace MP 17-2.0 Little ralls-CL5-MR 1,000,714 IABS5701-6-Replace MP 17-2.0 Little ralls-CL5-MR 1,000,910 IMB87701-6-Replace MP 14.6.12. SMR 1,000,910 IMB78701-6-Replace MP 14.6.12. SMR 1,000,900 IABS2001-4-Replace MP 14.6.2. SMR 1,000,900 IABS201-6-Replace MP 14.6.2. SMR 1,000,900 IABS201-6-Replace MP 14.6.12. SMR 999,844 IMB78010-Feaplace MP 14.6.12. SMR 999,844 IMB65901-4-Replace MP 4.9.5.1 Marshalltown BL-MCA-MR 999,844 IMB65901-4-Replace MP 4.9.5.1 Marshalltown BL-MCA-MR 999,844 IMB65901-4-Replace MP 4.9.5.1 Marshalltown BL-MCA-MR 999,844 IMB65901-4-Replace MP 4.9.5.1 Marshalltown BL-MCA-MR </td <td>4 0 0 0 1 1 0 8 1 1 6 6 6 9 9 0 0 1 1 1 1 1</td>	4 0 0 0 1 1 0 8 1 1 6 6 6 9 9 0 0 1 1 1 1 1
IA663901-6-Replace MP 5-2.5 A Harlan BL-MCA-MR 1.200,000 SD895701-8-Replace MP 14.5-14.7 Tama BL-MCA-MR 1.200,000 IA653901-6-Replace MP 14.5-14.7 Tama BL-MCA-MR 1.200,000 IA653901-6-Replace MP 12.7-19.9 Harlan BL-CIS-MR 1.010,000 IA663901-8-Replace MP 2.0-2.3 Cedar Talls BL-CIS-MR 1.001,000 IA666901-8-Replace MP 2.0-2.3 Cedar Talls BL-CIS-MR 1.001,011 IA075001-6-Replace MP 1.7-2.0 Little Talls CIS-MR 1.000,911 IM812001-6-Replace MP 1.0-1.2 Ackley BL-MCA-MR 1.000,911 IM812001-6-Replace MP 1.0-1.2 Ackley BL-MCA-MR 1.000,912 IM812001-6-Replace MP 1.0-1.2 Ackley BL-MCA-MR 1.000,912 IM812010-Replace MP 18.4-18.5 Mora BL-CIS-MR 1.000,912 Cedar Ave HCA-MA60C 26-Replace MR 1.000,912 IA665001-10-Replace MP 18.4-18.5 Mora BL-CIS-MR 1.000,912 IA665001-10-Replace MP 18.4-18.5 Mora BL-CIS-MR 1.000,902 IA665001-10-Replace MP 13.5-13 Marshaltown BL-MCA-MR 1.000,902 IA665001-10-Replace MP 32.9-3.2 Grinnell BL-MCA-MR 1.000,902 IA665001-10-Replace MP 5.5-5.7 Winthorp BL-MCA-MR 1.000,902 IA665001-10-Replace MP 5.5-5.7 Winthorp BL-MCA-MR 1.000,902 IM81201-8-Replace MP 15.10-10.8 Richland Center BL-MCA-MR 1.000,902	0 0 0 1 0 8 1 6 6 6 9 9 0 0 0 1 1 1 1 1
IABS5701-6-Replace MP 14.6-14.7 Tam BL-MCA-MR 1,200,000 IAB63901-6-Replace MP 19.7-19.9 Hardan BL-CLS-MR 1,275,801 IAB66801-8-Replace MP 2.0-2.3 Cedar Falls BL-CLS-MR 1,040,000 NNB85701-6-Replace MP 2.0-2.3 Cedar Falls BL-CLS-MR 1,001,143 MNB77010-6-Replace MP 2.0-2.1 Cuttle Falls-CLS-MR 1,001,143 MNB77010-6-Replace MP 1.0-1.2 Ackley BL-MCA-MR 1,000,910 MNB7801-6-Replace MP 1.0-2.1 Ackley BL-MCA-MR 1,000,910 MNB78401-6-Replace MP 18.6-SR, 7 Richland Center BL-MCA-MR 1,000,901 MNB78401-6-Replace MP 18.4-18.5 Mora BL-CLS-MR 1,000,900 MNB62501-10-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,841 MNB62501-10-Replace MP 1.0-5.0 & Richland Center BL-MCA-MR 999,841 MNB62501-10-Replace MP 1.0-5.1 Bristow BL-MCA-MR 999,841 MNB62501-Replace MP 1.0-5.1 Bristow BL-MCA-MR	0 0 1 8 8 1 6 6 9 9 0 0 0 1 1 1 1 1
IAB63901-6-Replace MP 19.7-19.9 Harlan BL-CLS-MR 1,200,000 WIB10801-4-Replace MP 21.3-21.5 Bloomer-MCA-MR 1,175,600 MIR5010-5-Replace MP 2.0.3.2 Cedar Fails BL-CLS-MR 1,040,000 MIR5701-6-Replace MP 1.7-2.0 Little Fails-CLS-MR 1,007,141 MIR57001-6-Replace MP 1.7-2.0 Little Fails-CLS-MR 1,000,916 WIB12301-6-Replace MP 1.7-2.0 Little Fails-CLS-MR 1,000,916 WIR57401-6-Replace MP 1.0-1.2 Ackley BL-MCA-MR 1,000,916 WIR57401-6-Replace MP 4.14.5 Mora BL-MCA-MR 1,000,906 WIR57401-6-Replace MP 4.4.15.5 Mora BL-MCA-MR 1,000,000 IA865011-6-Replace MP 4.4.15.5 Mora BL-MCA-MR 1,000,000 IA865011-0-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,844 NIR685011-0-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,844 NIR685011-8-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,844 NIR68501-8-Replace MP 1.5.10.5.1 MR HL-MCA-MR 999,307 NIR68501-8-Replace MP 1.8-3.1 Mason CLMCA-MR 999,307 NIR681021-8-	0 1 0 8 1 6 6 9 9 0 0 1 1 1 1 1 1
WiB10801-4. Replace MP 21.3-21.5 Bloomer-MCA-MR 1,175,800 IAB66801-8- Replace MP 2.0-2.3 Cedar Falls BL-CS-MR 1,040,000 NNB85701-6- Replace MP 2.0-5.7 Luvere BL-MCA-MR 1,007,143 IAB50901-4- Replace MP 1.0-1.2 Ackley BL-MCA-MR 1,000,916 VIB12301-6- Replace MP 1.0-1.2 Ackley BL-MCA-MR 1,000,916 VIB12301-6- Replace MP 1.0-1.2 Ackley BL-MCA-MR 1,000,916 VIB12301-6- Replace MP 1.0-1.2 Ackley BL-MCA-MR 1,000,396 Cedar Ave FHCA-M460C-26-Replace-MR 1,000,000 IA86201-10-Replace MP 3.9-3.2 Grinnell BL-MCA-MR 1,000,000 IA862011-10-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,844 NNB56901-4-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,844 NNB56901-4-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,844 NNB5010-4-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,844 NNB5801-4-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,844 NNB5801-4-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,844 NNB5801-4-Replace MP 4.9-5.1 Bristow BL-MCA-MR 997,300 S082002-10.2 Replace MP 4.9-5.1 Bristow BL-MCA-MR 997,300 NNB5801-4-Replace MP 4.9-5.1 Akrashaltown 2 dra BL-MCA-MR 997,300 S082002-10.2	1 0 8 1 6 6 9 9 0 0 0 1 1 1 1 1
IAB66801-8-Replace MP 2.0-2.3 Cedar Falls BL-CLS-MR 1,040,000 MNB85701-6-Replace MP 2.0-2.3 Cedar Falls BL-CLS-MR 1,011,390 MNB5701-6-Replace MP 1.0-1.2 Ackley BL-MCA-MR 1,000,141 IAB50901-4-Replace MP 1.0-1.2 Ackley BL-MCA-MR 1,000,910 WIB12301-6-Replace MP 1.6.1-S.S Richland Center BL-MCA-MR 1,000,910 WIB12301-6-Replace MP 1.6.4.18.5 Mora BL-CLS-MR 1,000,000 Cedar Ave FHCA-M460C-26-Replace-MR 1,000,000 IAB625011-0-Replace Cambridge 2nd-CLS 1,000,000 IAB625011-0-Replace MP 2.9.5.2 Ninthorp BL-MCA-MR 999,844 IAB66101-10-Replace MP 2.9.5.3 Ninthorp BL-MCA-MR 999,844 INB8801-4-Replace MP 1.5.1.0 S Richland Center BL-MCA-MR 999,844 WIB12301-8-Replace MP 1.5.5.7 Winthorp BL-MCA-MR 999,844 WIB12301-8-Replace MP 1.5.1.0 S Richland Center BL-MCA-MR 999,844 WIB12301-8-Replace MP 1.5.1.0 S Richland Center BL-MCA-MR 999,844 WIB12301-8-Replace MP 1.5.1.0 S Richland Center BL-MCA-MR 999,844 WIB12301-8-Replace MP 1.5.1.5 A Yankton 2nd BL-MCA-MR 999,844 WIB12301-8-Replace MP 1.5.1.5 A Yankton 2nd BL-MCA-MR 997,300 NIB83701-6-Replace MP 1.5.1.5 A Yankton 2nd BL-MCA-MR 997,300	0 8 1 6 9 9 0 0 1 1 1 1 1 1
MNB85701-6-Replace MP 9.5-9.7 Luverne BL-MCA-MR 1,011,392 MNB77001-6-Replace MP 1.7-2.0 Little Falls-CLS-MR 1,000,102 MAB52001-4-Replace MP 1.0-1.2 Ackley BL-MCA-MR 1,000,302 WIB12301-6-Replace MP 1.0.1.2 Ackley BL-MCA-MR 1,000,302 MNB78401-6-Replace MP 1.8.1.5 Mora BL-CLS-MR 1,000,302 Cedar Ave HCA-M460C-26-Replace-MR 1,000,000 IA802501-10-Replace MP 1.8.1.5 Mora BL-CLS-MR 1,000,000 IA802501-10-Replace MP 3.9.3.2 Grinnell BL-MCA-MR 999,843 MNB68901-4-Replace MP 5.5.5 T Winthorp BL-MCA-MR 999,843 MNB6901-4-Replace MP 1.5.1.5 K Vinithorp BL-MCA-MR 999,843 MNB82101-8-Replace MP 1.5.5.5 T Winthorp BL-MCA-MR 999,843 MNB8201-8-Replace MP 1.5.5.5 T Winthorp BL-MCA-MR 997,303 MNB8201-8-Replace MP 1.5.5.5 T WinthOra ML-MCA-MR 997,303 MNB8201-8-Replace MP 1.5.1.5.4 Vankto 2.0 BL-MCA-MR 997,303 MNB8201-8-Replace MP 1.5.1.5.4 Vankto 2.0	1 6 9 0 1 1 1 1 1
IAB50901-4.Replace MP 1.0-1.2 Ackley BL-MCA-MR 1,000,910 WIB12301-6.Replace MP 58.6-58.7 Richland Center BL-MCA-MR 1,000,000 MNB78401-6.Replace MP 18.4-18.5 Mora BL-CLS-MR 1,000,000 Cedar Ave HICA-M460C-26.Replace-MR 1,000,000 IAB62001-0.Replace MP 32.9-33.2 Grinnell BL-MCA-MR 999,841 MNB69801-4.Replace MP 4.9-5.1 Mrshalltown BL-MCA-MR 999,841 MNB69801-4.Replace MP 4.9-5.1 Mrshalltown BL-MCA-MR 999,841 MNB69801-4.Replace MP 6.3-6.6 Austin BL-MCA-MR 999,841 MNB69801-4.Replace MP 6.3-6.6 Austin BL-MCA-MR 999,841 MNB69801-4.Replace MP 4.9-5.1 Brichland Center BL-MCA-MR 999,841 WIB1201-8.Replace MP 1.9-1.0 B.Richland Center BL-MCA-MR 999,841 MNB83701-6.Replace MP 8.9-2 Springfield BL-MCA-MR 999,841 MNB83701-6.Replace MP 4.9-5.1 Brichland Center BL-MCA-MR 997,300 SD892002-10.Replace MP 8.9-2 Springfield BL-MCA-MR 997,300 SD892002-10.Replace MP 7.8-8.1 Mason City BL-MCA-MR 997,300 MNB78501-8.Replace MP 9.5 Lake City BL-MCA-MR 996,582 MNB78501-8.Replace MP 9.5 Lake City BL-MCA-MR 986,382 MNB78501-8.Replace MP 9.5 Lake City BL-MCA-MR 986,382 MNB64301-4.Replace MP 0.5 Lake City BL-MCA-MR 986,382	6 6 9 0 1 1 1 1 1
WiB12301-6-Replace MP 58.6-58.7 Richland Center BL-MCA-MR 1,000,912 MNB78401-6-Replace MP 18.4-18.5 Mora BL-CL5-MR 1,000,002 ILAB40102-4-Replace CMP 18.4-18.5 Mora BL-CL5-MR 1,000,000 ILAB40102-4-Replace CMP 18.4-18.5 Mora BL-MCA-MR 999,843 IAB66101-10-Replace MP 32.9-33.2 Grinnell BL-MCA-MR 999,843 IAB66101-10-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,843 NNB89301-4-Replace MP 6.3-6.6 Austin BL-MCA-MR 999,843 MNB89301-4-Replace MP 6.3-6.6 Austin BL-MCA-MR 999,843 MNB89301-4-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,843 WIB12301-8-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,843 MNB8301-6-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,843 MNB8301-6-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,843 MNB8301-6-Replace MP 15.1-15.4 Yankton 2 BL-MCA-MR 997,303 SDB2002-10-Replace MP 15.1-15.4 Yankton 2 BL-MCA-MR 997,303 SDB2002-10-Replace MP 9.5 Lake City BL-MCA-MR 997,303 MNB78501-8-Replace MP 9.5 Lake City BL-MCA-MR 995,835 VIB14401-4-Replace MP 0.5.1 Ristow City BL-MCA-MR 995,835 NNB78501-8-Replace MP 9.5 Lake City BL-MCA-MR 995,835	6 9 0 1 1 1 1 1 1
MNB78401-6-Replace MP 18.4-18.5 Mora BL-CLS-MR 1,000,392 Cedar Ave FHCA-M460C-26-Replace-MR 1,000,000 IA840102-4-Replace Cambridge 2nd-CLS 1,000,000 IA862501-10-Replace MP 32.9-33.2 Grinnell BL-MCA-MR 999,843 IA866101-10-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,843 NNB5801-4-Replace MP 5.5-5.7 Winthorp BL-MCA-MR 999,843 WIB12301-8-Replace MP 5.5-5.7 Winthorp BL-MCA-MR 999,843 WIB12301-8-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,843 WIB12301-8-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,843 VIB12301-8-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,843 VIB12301-8-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,843 SD892002-10-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 997,307 SD892002-10-Replace MP 5.1-15.4 Yankton 2nd BL-MCA-MR 997,307 SD892002-10-Replace MP 9.5 Lake City BL-MCA-MR 996,582 VIB14401-4-Replace Saw City BL-MCA-MR 996,582 VIB14401-4-Replace MP 9.5 Lake City BL-MCA-MR 980,000 NNB78501-8-Replace MP 9.5 Lake City BL-MCA-MR 980,000 NNB64301-4-Replace MP 0.0.2 Albany 800,000 NNB64301-4-Replace MP 0.0.3 Austin-MCA </td <td>9 0 1 1 1 1 1</td>	9 0 1 1 1 1 1
IAB40102-4-Replace Cambridge 2nd-CLS 1,000,000 IAB62501-10-Replace MP 3.2.9.33.2 Grinnell BL-MCA-MR 999,841 IAB66101-10-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,841 MNB68001-4-Replace MP 6.5-5.7 Winthorp BL-MCA-MR 999,841 MNB68012-8-Replace MP 6.3-6.6 Austin BL-MCA-MR 999,841 MNB81201-8-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,841 IAB47601-6-Replace MP 9.5-5.5 Umithorp BL-MCA-MR 997,307 NNB8301-8-Replace MP 9.5-5.5 Umithorp BL-MCA-MR 997,307 SDB92002-10-Replace MP 8.9-9.2 Springfield BL-MCA-MR 997,307 SDB92002-10-Replace MP 9.5-1.5.4 Vankton 2nd BL-MCA-MR 997,307 VIB14201-4-Replace MP 9.5.1 Auston City BL-MCA-MR 995,582 VIB14201-4-Replace MP 9.5.1 Ake City BL-MCA-MR 995,582 VIB14201-4-Replace MP 9.5.1 Ake City BL-MCA-MR 958,355 VIB14201-4-Replace MP 0.5.2 Ake City BL-MCA-MR 950,000 NNB63201-4-Replace MP 0.5.2 Ake City BL-MCA-MR 800,000 NNB64301-4-Replace MP 0.0.2 Ake MP 0.0.2.	0 1 1 1 1 1
IAB62501-10-Replace MP 32.9-33.2 Grinnell BL-MCA-MR 999,841 IAB66101-10-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,841 MNB69801-4-Replace MP 5.5-5.7 Winthorp BL-MCA-MR 999,841 MNB81201-8-Replace MP 6.3-6.6 Austin BL-MCA-MR 999,841 WIB12301-8-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,841 IAB47601-6-Replace MP 4.9-5.1 Bristow BL-MCA-MR 999,841 IAB47601-6-Replace MP 4.9-5.1 Bristow BL-MCA-MR 997,307 SDB9202-10-Replace MP 9.9.2 Springfield BL-MCA-MR 997,307 SDB9202-10-Replace MP 7.8-8.1 Mason City BL-MCA-MR 997,307 IAB72002-12-Replace MP 9.5 Lake City BL-MCA-MR 997,307 IAB72002-12-Replace MP 9.5-1.5.4 Yankton 2nd BL-MCA-MR 997,307 IAB72002-12-Replace MP 9.5 Lake City BL-MCA-MR 997,307 IAB72002-12-Replace MP 9.5 Lake City BL-MCA-MR 996,843 WIB14401-4-Replace Sauk City BL-MCA-MR 996,843 WIB14401-4-Replace Sauk City BL-MCA-MR 986,854 WIB14401-4-Replace MP 18.8-19.3 Albany 800,000 MNB64301-4-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 MNB64301-4-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 MNB64301-4-Replace MP 1.8-19.3 Albany 800,000 MNB64301-4-Replace MP 1.8-2.0 Bl	1 1 1 1
IAB66101-10-Replace MP 4.9-5.1 Marshalltown BL-MCA-MR 999,841 MNB69801-4-Replace MP 5.5-5.7 Winthorp BL-MCA-MR 999,841 MNB81201-8-Replace MP 6.3-6.6 Austin BL-MCA-MR 999,841 WIB12301-8-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,841 IAB47601-6-Replace MP 4.9-5.1 Bristow BL-MCA-MR 997,307 MNB83701-6-Replace MP 4.9-5.1 Bristow BL-MCA-MR 997,307 SDB2002-10-Replace MP 15.1-15.4 Yankton 2nd BL-MCA-MR 997,307 SDB2002-10-Replace MP 7.8-8.1 Mason City BL-MCA-MR 996,842 WNB78501-8-Replace MP 9.5 Lake City BL-MCA-MR 997,307 IAB7002-12-Replace MP 9.5.1 Key City BL-MCA-MR 996,842 WIB14401-4-Replace Sauk City BL-MCA-MR 996,842 WIB14401-4-Replace Soux City BL-MCA-MR 998,842 WIB14401-4-Replace Soux City IA-MAR 985,854 WIB14401-4-Replace Soux City IA-MAR 986,800,000 MNB64301-4-Replace MP 0-0.2 Austin-MCA 800,000 MNB64301-4-Replace MP 0-0.2 Austin-MCA 800,000 MNB63001-4-Replace MP 0-0.2 Austin-MCA 800,000	1 1 1 1
MNB69801-4-Replace MP 5.5-5.7 Winthorp BL-MCA-MR 999,841 MNB81201-8-Replace MP 6.3-6.6 Austin BL-MCA-MR 999,841 WiB12301-8-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,841 WiB12301-6-Replace MP 4.9-5.1 Bristow BL-MCA-MR 997,302 IAB47601-6-Replace MP 4.9-5.1 Bristow BL-MCA-MR 997,302 MNB83701-6-Replace MP 8.9-9.2 Springfield BL-MCA-MR 997,302 SDB92002-10-Replace MP 15.1-15.4 Yankton 2nd BL-MCA-MR 997,302 IAB72002-12-Replace MP 9.5 Lake City BL-MCA-MR 996,5832 WIB1401-4-Replace MP 9.5 Lake City BL-MCA-MR 996,5832 WIB1401-4-Replace MP 9.5 Lake City BL-MCA-MR 985,354 IAB44201-12-Replace MP 0.5 Lake City BL-MCA-MR 985,354 IAB44201-12-Replace MP 0.5 Lake City BL-MCA-MR 985,354 IAB44201-12-Replace MP 0.5 Lake City BL-MCA-MR 986,300 MNB64301-4-Replace MP 0.5 Lake City BL-MCA-MR 800,000 MNB64301-4-Replace MP 0.025 Albany 800,000 MNB64301-4-Replace MP 0.0.3 Austin-MCA 800,000 MNB8201-8-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 MNB8201-8-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 MNB8201-8-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 MNB8201-8-Replace MP 1.8-2.0 Blair BL-MC	1 1 1
WIB12301-8-Replace MP 10.5-10.8 Richland Center BL-MCA-MR 999,841 IAB47601-6-Replace MP 4.9-5.1 Bristow BL-MCA-MR 997,307 MNB83701-6-Replace MP 8.9-9.2 Springfield BL-MCA-MR 997,307 SDB92002-10-Replace MP 8.9-9.2 Springfield BL-MCA-MR 997,307 SDB9202-12-Replace MP 7.8-8.1 Mason City BL-MCA-MR 996,587 MNB78501-8-Replace MP 9.5 Lake City BL-MCA-MR 958,354 WIB14401-4-Replace Sauk City BL-MCA-MR 958,354 WIB14401-4-Replace Sauk City BL-MCA-MR 958,354 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 18.8-19.3 Albany 800,000 MNB81201-8-Replace MP 0-0.3 Austin-MCA 800,000 MNB8201-8-Replace MP 0.2-0.62 Carlton-Mesabi Iron Range B-MR 800,000 M430B-20-Replace MP 1.2-1.0.55 Carlton-Mesabi Iron Range B-MR 750,000 MA30B-20-Replace MP 0.0-2.8 Minneapolis TBS 1D BL-MR 750,000	1
IAB47601-6-Replace MP 4.9-5.1 Bristow BL-MCA-MR 997,307 MNB83701-6-Replace MP 8.9.2 Springfield BL-MCA-MR 997,307 SDB92002-10-Replace MP 15.1-15.4 Yankton 2nd BL-MCA-MR 997,307 IAB72002-12-Replace MP 9.5.1-15.4 Yankton 2nd BL-MCA-MR 996,363 WIB14401-4-Replace Sauk City BL-MCA-MR 985,854 WIB14401-4-Replace Sauk City BL-CLS-MR 958,354 IAB4201-12-Replace Sioux City 1A-MR 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB81201-8-Replace MP 0-0.3 Austin-MCA 800,000 MA808-20-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 M4308-20-Replace MP 0.2-0.62 Carlton-Mesabi Iron Range B-MR 750,000 M4308-20-Replace MP 1.2-1.0.55 Carlton-Mesabi Iron Range B-MR 750,000 M4308-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000	
MNB83701-6-Replace MP 8.9-9.2 Springfield BL-MCA-MR 997,307 SDB92002-10-Replace MP 15.1-15.4 Yankton 2nd BL-MCA-MR 997,307 IAB72002-12-Replace MP 7.8-8.1 Mason City BL-MCA-MR 996,582 WIB14401-8-Replace MP 9.5 Lake City BL-MCA-MR 985,854 WIB14401-4-Replace Sauk City BL-CLS-MR 958,354 IAB44201-12-Replace Sioux City 1A-MR 950,000 MNB63801-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.3 Austin-MCA 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.3 Austin-MCA 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.3 Austin-MCA 800,000 MNB64301-4-Replace MP 0-0.3 Austin-MCA 800,000 MNB64301-4-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 MA308-20-Replace MP 1.2-0.52 Carlton-Mesabi Iron Range B-MR 750,000 M4308-20-Replace MP 1.2-1.0.55 Carlton-Mesabi Iron Range B-MR 750,000 M4308-20-Replace MP 0.0-1.25 Kolinne-Agabi Iron Range B-MR 750,000 M4308-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000 MNB77601-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR <t< td=""><td></td></t<>	
IAB72002-12-Replace MP 7.8-8.1 Mason City BL-MCA-MR 996,582 MNB78501-8-Replace MP 9.5 Lake City BL-MCA-MR 958,354 W1B14401-4-Replace Sauk City BL-CLS-MR 958,354 IAB4201-12-Replace Sioux City IA-MR 980,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 1.8-19.3 Albany 800,000 MNB64301-4-Replace MP 0-0.3 Austin-MCA 800,000 MNB8201-8-Replace MP 0.3 Austin-MCA 800,000 MA808-20-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 M4308-20-Replace MP 0.2-0.62 Carlton-Mesabi Iron Range B-MR 750,000 M4308-20-Replace MP 0.2-1.0.55 Carlton-Mesabi Iron Range B-MR 750,000 M4308-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000	
MNB78501-8-Replace MP 9.5 Lake City BL-MCA-MR 958,354 WIB14401-4-Replace Sauk City BL-CLS-MR 958,354 IAB44201-12-Replace Sioux City AL-MR 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 18.8-19.3 Albany 800,000 MNB64301-4-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 MNB85201-8-Replace MP 0.0.3 Austin-MCA 800,000 MA808-20-Replace MP 0.2-0.62 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 0.21-10.55 Carlton-Mesabi Iron Range B-MR 750,000 MA30B-20-Replace MP 0.0-1.62 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000	
WiB14401-4-Replace Sauk City BL-CLS-MR 958,354 IAB44201-12-Replace Sioux City 1A-MR 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.3 Austin-MCA 800,000 MNB81201-8-Replace MP 0-0.3 Austin-MCA 800,000 NB553001-6-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 M4308-20-Replace MP 0.2-0.52 Carlton-Mesabi Iron Range B-MR 750,000 M4308-20-Replace MP 0.2-1.0.55 Carlton-Mesabi Iron Range B-MR 750,000 M4308-20-Replace MP 0.0-1.25 Carlton-Mesabi Iron Range B-MR 750,000 M4308-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000	
IAB44201-12-Replace Sioux City 1A-MR 800,000 MMB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB64301-4-Replace MP 0-0.25 Albany 800,000 MNB821201-8-Replace MP 0-0.3 Austin-MCA 800,000 NEB53001-6-Replace MP 0-0.2 Austin-MCA 800,000 M430B-20-Replace MP 0.2-0.62 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 0.2-1.0.55 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 0.0-7-6.26 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 0.0-1.28 Minneapolis TBS 1D BL-MR 750,000	
MNB64301-4-Replace MP 18.8-19.3 Albany 800,000 MNB64301-4-Replace MP 0-0.3 Austin-MCA 800,000 MNB81201-8-Replace MP 0.0.3 Austin-MCA 800,000 NEB53001-6-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 M430B-20-Replace MP 0.2-0.62 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 1.0.21-10.55 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 0.0-1.62 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000	
MNB81201-8-Replace MP 0-0.3 Austin-MCA 800,000 NEB53001-6-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 M430B-20-Replace MP 0.2-0.62 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 1.0.21-10.55 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 6.07-6.26 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000	
NEB53001-6-Replace MP 1.8-2.0 Blair BL-MCA-MR 800,000 M430B-20-Replace MP 0.2-0.62 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 1.0.21-10.55 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 6.07-6.26 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000	
M430B-20-Replace MP 0.2-0.62 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 10.21-10.55 Carlton-Mesabi Iron Range B-MR 750,000 M430B-20-Replace MP 6.07-6.26 Carlton-Mesabi Iron Range B-MR 750,000 MNB77601-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000	
M430B-20-Replace MP 6.07-6.26 Carlton-Mesabi Iron Range B-MR 750,000 MNB77601-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000	
MNB77601-20-Replace MP 0.0-0.28 Minneapolis TBS 1D BL-MR 750,000	
MNB86901-6-Replace Coon Rapids-CLS 750,000	
WIB12801-4-Replace MP 0-0.2 Platteville 750,000	
IAB43501-3-Replace MP 1.7-1.8 Jewell BL-MCA-MR 749,881	
IAB55301-4-Replace MP 1.8-2.0 Clarksville BL-MCA-MR 749,881 IAB51201-3-Replace MP 7.5-8 Monona 507,484	
1AB65601-16-Replace MP 0.02-0.5 Des Moines 1A-MR 500,000	
IAB66001-10-PT MP 4.79-21.48 Ames BL-HCA-MR 500,000	
IAB66002-10-PT MP 4.13-4.24 Ames 2nd BL-MCA-MR 500,000	
IAB71801-10-Replace MP 4.05-4.27 Waverly BL-MR 500,000 IAB71801-8-Replace MP 11.37-11.54 Waverly BL-MR 500,000	
IAB71801-8-Replace MP 14.74-14.85 Waverly BL-MR 500,000	
IAB71801-8-Replace MP 20.74-20.93 Waverly BL-MR 500,000	
MNB90701-6-Replace MP 0.0-0.03 M500C-MNB8301 TO-MCA-MR 499,921 MNB87301-6-PT-MP 0.0-2.02 Anoka-Chaplin BL-HCA-MR 301,305	
MNB87301-6-PT-MP 0.0-2.02 Anoka-Chaplin BL-HCA-MR 301,305 WIB14301-6-PT-MP 2.00-2.86 Portage BL-HCA-MR 301,305 301,305 301,305	
MNB75601-24-PT-MP 0.0-1.18 Willmar BL-HCA-MR 300,000	
MNB75601-24-PT-MP 2.78-3.83 Willmar BL-HCA-MR 300,000	
MNB75601-24-PT-MP 4.99-5.89 Willmar BL-HCA-MR 300,000 MNB75601-24-PT-MP 6.76-7.04 Willmar BL-HCA-MR 300,000 MNB75601-24-PT-MP 6.76-7.04 Willmar BL-HCA-MR 300,000	
WIB14301-6-PT-MP 4.52-4.64 Portage BL-MCA-MR S00,000 300,000 300,000	
Subtotal: MAOP Reconfirmation 69,151,544 44,304,914 60,711,289 321,701,245	
Remote Mitigation Valves	
RCV M432B Marquette ML-BBB08 1,507,536 RCV IAB79501 Tipton BL-BYB01 496,185	
RCV MNB73201 La Crosse BL-BBB07 3,172,895	
RCV M521B Actuator-Phase II-Marshalltown Takeoff	
RCV M521C Actuator-Phase II-Marshalltown Takeoff	
RCV M521B Feed to Eldora IA 4 TBS RCV MIB11601 Lake Linden BL-BYB03 4,274,917	
RCV MNB73201 LaCrosse BL 2,613,971	
RCV MNB75602-16-Willmar C 2,200,214	

Project Description	2024	2025	2026	2027 - 2033	10-Year 2024 - 2033
RCV M521D Ogden-Waterloo D		1,981,483			
RCV M521C Ogden-Waterloo D		1,981,483			
RCV IAB74101 Dyersville BL-BYB01 or 02		1,586,396			
RCV IAB51101 Waukon BL-BYB04 or 05		1,586,273			
RCV MNB95701 Corcaran BL-DYB01		1,493,976			
RCV WIB18692 Blk Rvr Falls 2 and 3 - CYC07			970,821		
RCV WIB18601 Black River Falls - BYB03			970,797		
RCV HCA			2,382,985	16,788,637	
Subtotal: Remote Control Valves	12,065,505	10,829,826	4,324,603	16,788,637	44,008,571
Asset Modernization Total	220,919,087	267,315,870	322,290,270	1,871,284,634	2,681,809,861





