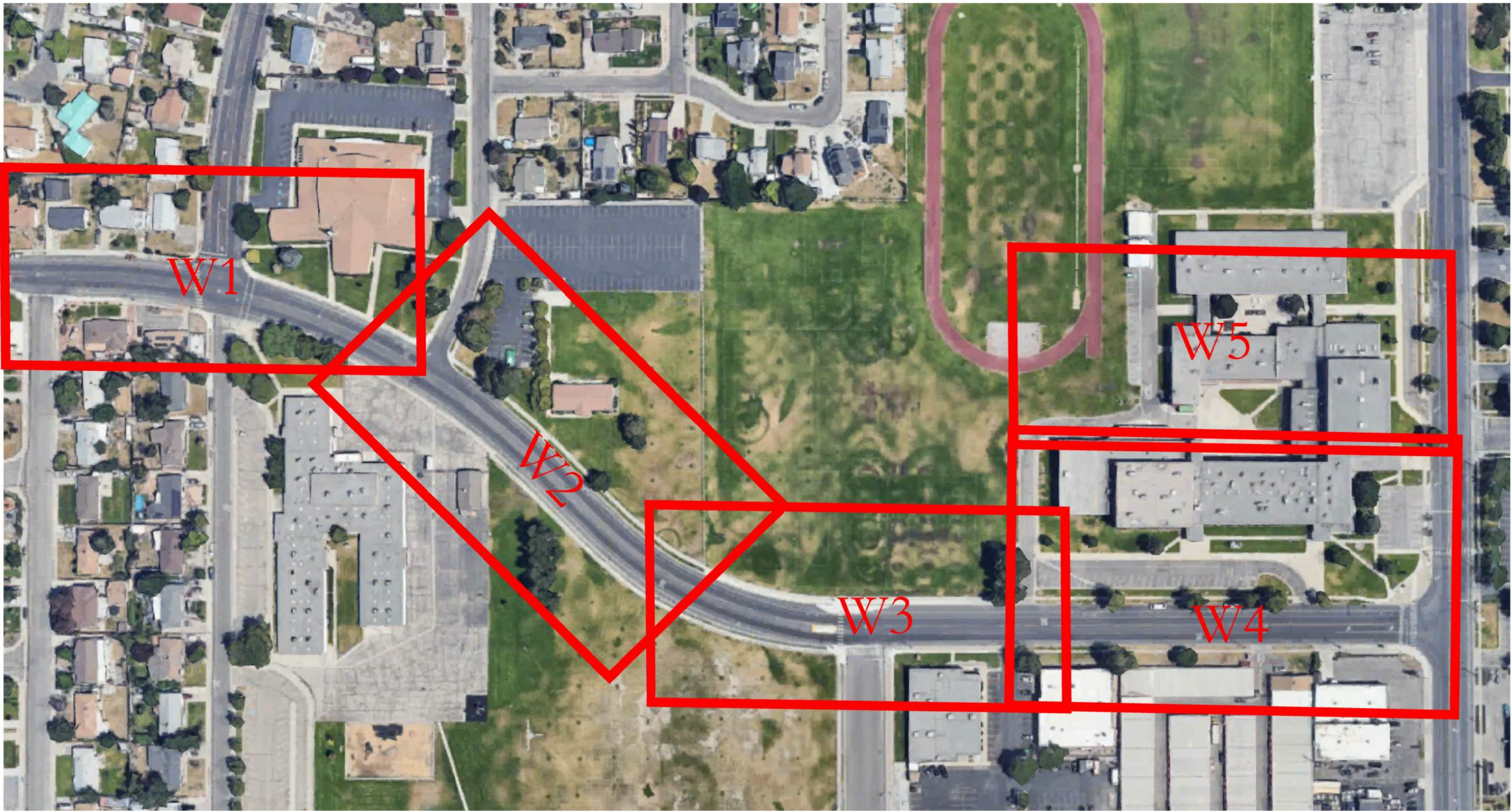


# Construction Drawings for Water Supply Repair and Resiliency Project 12-Inch Water Line on Sams Blvd. (4320-4015 West)

## GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION ACTIVITIES PER THE CONTRACT DOCUMENTS. ANY ADDITIONS, DELETIONS, OR MODIFICATIONS SHALL FIRST MEET WITH THE WRITTEN APPROVAL OF THE ENGINEER AND THE OWNER.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND COMPLY WITH ALL REQUIREMENTS OF GOVERNING AGENCIES.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS FOR REVIEW AND APPROVAL BY SALT LAKE COUNTY. WORK WILL NOT BEGIN UNTIL THE PLANS HAVE BEEN APPROVED AND THE CONTRACTOR HAS OBTAINED A PERMIT.
- THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE ESTABLISHED RIGHTS-OF-WAY AND EASEMENTS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATION, AND EXCAVATED MATERIAL AND BACKFILL STORAGE. IF THE CONTRACTOR REQUIRES ADDITIONAL CONSTRUCTION EASEMENTS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH EASEMENTS FROM INDIVIDUAL PROPERTY OWNERS.
- EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON A RECORDS SEARCH BY LOCAL CONTROLLING AGENCIES AND ARE APPROXIMATELY LOCATED. EXISTING UTILITIES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF AND PRESERVING ALL UTILITIES INCLUDING THOSE NOT SHOWN OR INCORRECTLY SHOWN ON THE PLANS. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES TWO (2) WEEKS IN ADVANCE OF UTILITY CONFLICTS REQUIRING RELOCATION OF MAIN LINES, AND ONE (1) WEEK IN ADVANCE OF CONFLICTS REQUIRING RELOCATION OF SERVICE LATERALS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE WHICH ARE TO REMAIN IN PLACE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO ORIGINAL OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING SERVICE LINES FOR GAS, SEWER, WATER, AND OTHER UTILITIES AND REPAIRING DAMAGE TO SUCH LINES AS A RESULT OF THE CONTRACTOR'S OPERATIONS. SERVICE CONNECTIONS FOR UTILITIES ARE NOT SHOWN ON THE DRAWINGS. TRENCH SUPPORTS AND DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMANCE WITH LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PUBLIC AND PROTECTION OF PERSONNEL AND WORKERS.
- IF THE CONTRACTOR CHOOSES TO WORK ON THE PROJECT WHEN THE HOT MIX ASPHALT IS NOT AVAILABLE, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE GOVERNING AGENCY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY ASPHALT SURFACING MATERIAL. WHEN HOT MIX ASPHALT BECOMES AVAILABLE, THE CONTRACTOR SHALL REMOVE THE TEMPORARY ASPHALT, FURNISH, AND INSTALL THE HOT MIX ASPHALT AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL NOT DESTROY, REMOVE, OR DISTURB ANY EXISTING SURVEY MONUMENTS WITHOUT AUTHORIZATION OF CONTROLLING AGENCY. NO PAVEMENT CUTTING OR REMOVAL SHALL BEGIN UNTIL ALL SURVEY MARKERS OR MONUMENT POINTS THAT HAVE THE POTENTIAL OF BEING DISTURBED BY CONSTRUCTION OPERATIONS HAVE BEEN PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR. ALL SURVEY MONUMENTS OR POINTS DISTURBED BY THE CONTRACTOR SHALL BE ACCURATELY RESET BY A REGISTERED LAND SURVEYOR AFTER ALL RESTORATION AND RESURFACING HAS BEEN COMPLETED.
- NEW HYDRANTS INSTALLED IN CONJUNCTION WITH THE PROJECT SHALL BE BAGGED UNTIL THE NEW PIPELINE IS IN SERVICE.
- CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW A CONSTRUCTION SEQUENCING PLAN DETAILING PROPOSED PHASING AND CONNECTION PROCEDURES INCLUDING HYDRANTS AND SERVICE CONNECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR MATERIALS, EQUIPMENT, AND LABOR TO ACCOMPLISH HYDRANT AND SERVICE LATERAL REPLACEMENT AND CONNECTIONS.
- THE CONTRACTOR SHALL PROVIDE AND DISTRIBUTE APPROVED WRITTEN NOTICE OF CONSTRUCTION ACTIVITIES TO ALL RESIDENTS AND BUSINESSES LOCATED IN THE CONSTRUCTION AREA AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. WRITTEN NOTICE SHALL BE APPROVED BY THE ENGINEER PRIOR TO DISTRIBUTION.
- CONTRACTOR SHALL PROVIDE AND UPDATE A CONSTRUCTION SCHEDULE IN ACCORDANCE WITH SPECIFICATIONS FOR WORKING IN THE PUBLIC WAY PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY DEPTHS OF UTILITIES IN THE FIELD BY POT HOLEING A MINIMUM OF 40 FEET AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES, THE CONTRACTOR SHALL RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SETTLEMENT OF EXCAVATIONS, AND ANY DAMAGE OF UTILITIES RESULTING FROM SETTLEMENT.
- THE CONTRACTOR SHALL PREVENT ANY GROUND WATER OR DEBRIS FROM ENTERING THE NEW PIPE DURING CONSTRUCTION.
- LAY PIPE TO DEPTH AND ALONG HORIZONTAL ALIGNMENT AS DEFINED IN THESE DRAWINGS. CONTRACTOR SHALL NOT DEVIATE FROM PROPOSED ALIGNMENT OR GRADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- ABANDONING EXISTING WATERLINE: REMOVE ABANDONED PIPE WHERE UNCOVERED OR DISTURBED BY CONSTRUCTION. WHERE NOT DISTURBED, CONTRACTOR MAY ABANDON EXISTING WATER MAIN IN PLACE AFTER THE NEW MAIN IS IN FULL SERVICE. IN THE LEFT RIGHT-OF-WAY, ABANDONED LINES SHALL BE CAPPED ON EACH END. CAP ENDS OF ABANDONED MAINS WITH 24" MJ CAP. ALL WATER MAINS THAT ARE NO LONGER IN SERVICE ARE TO BE DISCONNECTED COMPLETELY FROM THE WORKING SYSTEM UNLESS THE CONTRACTOR IS SPECIFICALLY DIRECTED TO REMOVE EXISTING VALVES. THE CONTRACTOR SHALL ABANDON EXISTING VALVES IN PLACE USING THE FOLLOWING PROCEDURE: OPEN VALVE, REMOVE TOP OF VALVE BOX, AND FILL RESULTING HOLE WITH SAND. RESTORE SURFACE IN ACCORDANCE WITH SURFACE RESTORATION REQUIREMENTS.
- WHERE ENGINEER DETERMINES MECHANICAL COMPACTION CANNOT BE ADEQUATELY PERFORMED CONTRACTOR SHALL BACKFILL TRENCH AREAS WHERE NEW WATERLINES CROSS UNDER EXISTING BURIED UTILITIES WITH FLOWABLE FILL (CEMENT TREATED FILL) IN ACCORDANCE WITH UDOT 65575.
- ALL BURIED REBAR, FITTINGS, COUPLINGS, VALVES AND MECHANICAL JOINT NUTS AND BOLTS ARE TO BE COATED WITH NON-OXIDE GREASE: CHEVRON FM 1 OR APPROVED EQUAL, COVERED WITH 8 MIL POLYETHYLENE SHEETING, AND TAPE WRAPPED PER AWWA C105.
- THE CONTRACTOR SHALL MAINTAIN A 10-FOOT HORIZONTAL AND AN 18-INCH VERTICAL SEPARATION FROM ALL SEWER LINES.
- EXCEPT AS NOTED OTHERWISE, THE CONTRACTOR SHALL REPLACE ALL CURB AND GUTTER AND CONCRETE WATERWAYS DISTURBED DURING CONSTRUCTION PER UDOT STANDARD PLANS TO MATCH EXISTING.
- THE CONTRACTOR SHALL RESTORE OR REPLACE ANY SPRINKLING SYSTEMS AND LANDSCAPING DAMAGED DURING CONSTRUCTION TO EQUAL OR BETTER CONDITION THAN WHAT EXISTED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL SAW CUT ASPHALT, SIDEWALK, AND WHERE REQUIRED, CURB AND GUTTER AT THE LIMITS OF ALL TRENCH EXCAVATION.
- UNLESS NOTED OTHERWISE, ALL NEW WATER MAIN SHALL BE C900 CLASS 305 (DR14) PIPE, SIZE OF FITTINGS SHOWN ON THE PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.



Project Key Map

### General Notes

#### WATER GENERAL NOTES

- ALL WATER SYSTEM INSTALLATION SHALL CONFORM TO THE CURRENT KEARNS IMPROVEMENT DISTRICT STANDARDS, SPECIFICATIONS AND CURRENT OPEN STANDARDS.
- HORIZONTAL CLEARANCE BETWEEN A WATER MAIN AND ANY PARALLEL ADJACENT UTILITY SHALL BE AT LEAST TEN FEET (10'). WHEN ANOTHER UTILITY CROSSES A WATER LINE, THEN THE OTHER UTILITY SHALL CROSS PERPENDICULARLY. ONLY DRY UTILITIES SHALL CROSS ABOVE THE WATER MAIN. IF THIS IS DETERMINED TO BE AN IMPASSIBLE CONFLICT WITH DIRECTION ENGINEER FOR APPROVAL. A MINIMUM OF EIGHTEEN (18") VERTICAL SEPARATION IS REQUIRED BETWEEN THE TWO MAINS. THE BENDING JOINTS MINIMUM, AND THE JOINT 12-INCHES MINIMUM SHALL BE MAINTAINED IN APPROVED AND 90% COMPACTED PROCTOR DENSITY. THE MINIMUM COVER REQUIRED SHALL BE FORTY EIGHT INCHES (48"), SHOULD COVER BE INSUFFICIENT TO ADEQUATELY PROTECT THE UTILITY FROM ANY LOADING, ENCASEMENT OR CASINGS SHALL BE PROVIDED TO PROTECT THE AFFECTED UTILITY. COMPACTED TRENCH BACKFILL: UNTREATED BASE COURSE AND ASPHALT PER LOCAL PERMIT. 90% COMPACTED PROCTOR DENSITY.
- PRESSURE TEST OF THE WATER LINE IS REQUIRED TO HOLD TWO HUNDRED POUNDS PER SQUARE INCH (200 PSI) FOR THREE HOURS FOR TWO (2) HOURS UNLESS OTHERWISE REQUIRED.
- TRACER WIRE SHALL BE INSTALLED DIRECTLY ABOVE THE TOP OF ALL CULINARY WATER PIPES. TRACER WIRE SHALL BE 12 GAUGE INSULATED COPPER WIRE. TRACER WIRE SHALL BE LOCATED THIRTY INCHES (3") FROM THE TOP OF THE MAIN, AND PASSING BACTERIA TEST. OFFERED PRIOR TO CONNECTION TO ANY ADD WATER INFRASTRUCTURE. CLEANING OF THE COMPLETE WATER LINES SHALL BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO AID. BACTERIA SAMPLES WILL BE COLLECTED BY AID PERSONNEL AT THE REQUEST OF THE AID INSPECTOR. CONTRACTOR IS RESPONSIBLE FOR TAKING CARE TO CLEAN ALL PIPES AND JOINTS OF OTHER HARMFUL BACTERIA FROM ENTERING THE PIPE DURING FITTING, STORAGE AND CONNECTION.
- CULINARY WATER TRENCH STANDARDS: COMPACTION TESTS ARE REQUIRED EVERY 25 FEET OF DEPTH (20' TO 10' AND FULL DEPTH) FOR ANY MAIN WATER INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEST RESULTS TO AID. COMPACTION SHALL BE TO 90% OR GREATER RELATIVE TO A STANDARD PROCTOR DENSITY. A GRINDING PILE FOR ENCOUNTERED TRENCHES MUST BE SUPPORTED FROM WATER DURING EXCAVATION, PIPE INSTALLATION, AND THE INSTALLATION OF MATERIAL IN THE TRENCH. EXCAVATION OF ANY TRENCH MUST BE TO AID SAFETY STANDARDS.
- VALVES SHALL BE LOCATED IN ALL INTERSECTIONS AND CONNECTIONS AS SHOWN ON THE PLANS. ALL VALVES SHALL BE 12 INCH DUCTILE IRON GATE VALVES.
- JOINTS SHALL BE REPAIRED AT ALL VALVES, TEE CROSS, BEND, WYLL AND BENDS AND FITTINGS. THE NUMBER OF JOINTS THAT NEED TO BE RETAINED BACK FROM THIRST PRODUCE FITTINGS IS SHOWN ON A DETAILED SHEET.
- FIRE HYDRANTS: FIRE HYDRANTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS. NO FIRE HYDRANT SPACING SHALL EXCEED 500 FEET IN MEAN OF MULTI-FAMILY DWELLINGS, COMMERCIAL AND MANUFACTURING USE AND NOT EXCEED 600 FEET IN SINGLE-FAMILY DWELLING USE AREAS. HYDRANTS SHALL BE CONNECTED TO THE MAIN USING A MINIMUM SIX INCH (6") DIAMETER PIPE.
- CONCRETE THIRST BLOCKS: PROVIDE CONCRETE THIRST BLOCKS AT ALL JOINTS, TURN-OF-PIPE AND END OF THE BASE OF ALL HYDRANTS. PLACE THIRST BLOCKS DIRECTLY AGAINST UNDERGROUND LATELY. PROVIDE BOND BREAKERS ON ALL THIRST BLOCKS. ALL OTHER LOCATIONS SHALL RELY ON REPAIRS AND PATCHES TO HANDLE THIRST AND PROTECT OTHERWISE BY THE DISTRICT ENGINEER.
- WATER VALVES WITH WORKS: NO WATER WORK SHALL BE ALLOWED IN ANY STREET, DRIVEWAY, DRIVEWAY FLARE, OR SIDEWALK. SERVICE LATERALS NO CROSS IN THE LATERALS SHALL BE ALLOWED. ALLOWING SERVICE LINE SHALL BE CONSTRUCTED AS PER SECTION 2.1. MINIMUM SIZE SHALL BE ONE INCH (1") DIAMETER FOR RESIDENTIAL CONNECTIONS.
- CONTRACTOR IS RESPONSIBLE FOR NOTING AND LOCATING ALL EXISTING POTENTIAL CONFLICTING UTILITIES IN ADVANCE OF CONSTRUCTION OF THE NEW WATERLINE. CALL BEHOLDERS IN ADVANCE OF POTENTIAL CONFLICTS. ALL CONFLICTS WILL BE BROUGHT TO THE ATTENTION IN THE FIELD BY THE DISTRICT ENGINEER TO THE SITE AND DETERMINING THE MEANS AND METHOD TO MITIGATE THE CONFLICTS.
- SURVEY: CONTRACTOR SHALL PROVIDE SURVEYING WITH STAKES AND PAINT WITH OBJECTS TO LOCATE THE PROPOSED WATER LINE INSTALLATION. CONTRACTOR SHALL SCHEDULE A FIELD WALK THROUGH TO IDENTIFY ANY CONFLICTS WITH THE DISTRICT ENGINEER.
- CONTRACTOR SHALL PROVIDE AID AND THEIR CUSTOMERS WITH 48 HOURS NOTICE BEFORE DISCONNECTING OR CONNECTING OR IMPACTING EXISTING WATER LINES AND CONNECTIONS. COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE DISTRICT AND ESPECIALLY WHEN PERFORMING WORK IN KEARNS JR. HIGH.
- ALL WORK PERFORMED ON GRANITE SCHOOL DISTRICT PROPERTY WILL BE COMPLETED AFTER AUGUST 1, 2025.



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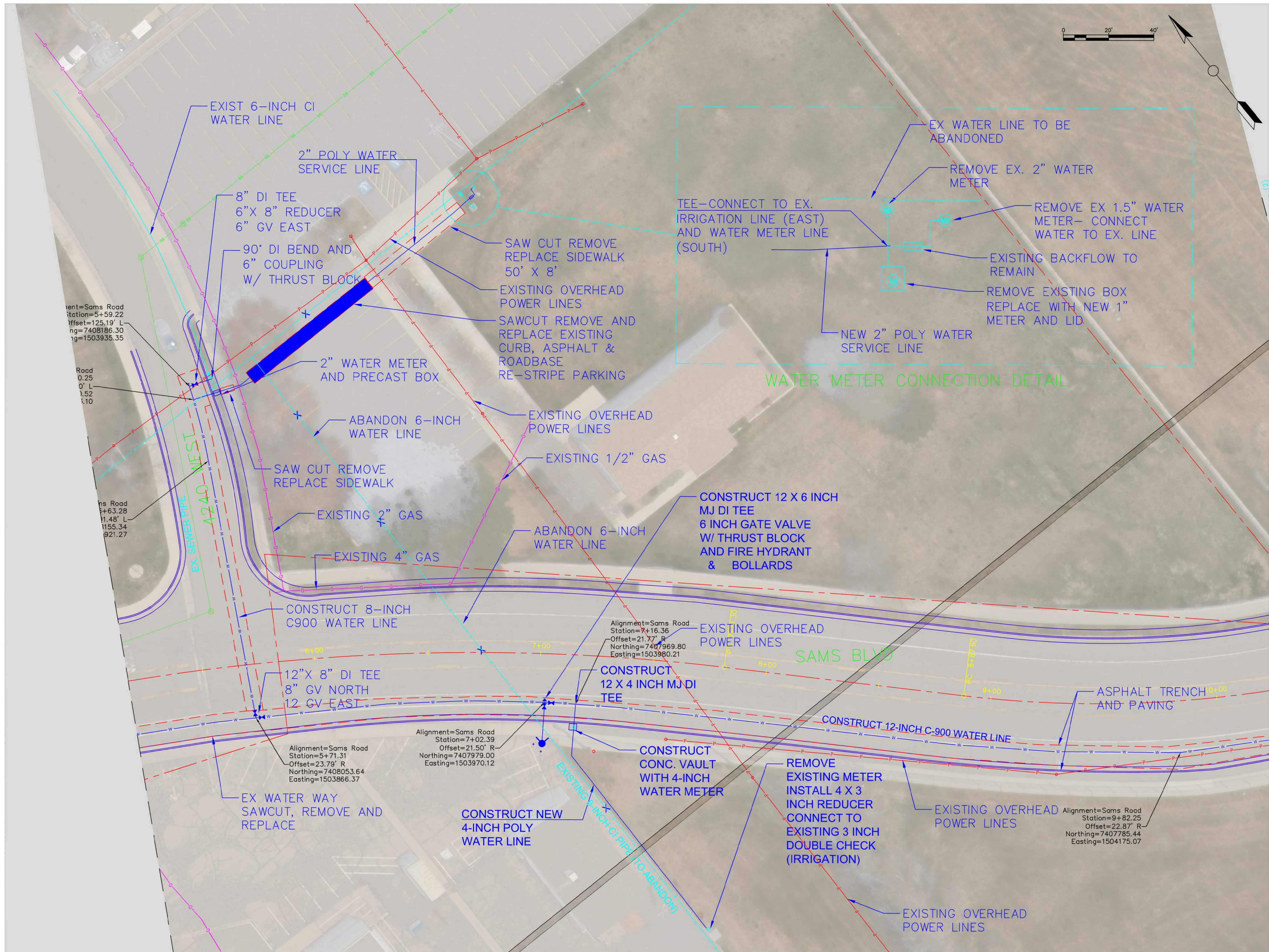
Project Name and Address  
KEARNS JR HIGH WATER LINE  
REPLACEMENT PROJECT  
SAMS BLVD. (4320-4015 WEST)

Project	2025-01	Sheet
Date	9/23/2025	C
Scale	1" = 20'	









General Notes

- WATER GENERAL NOTES
1. ALL WATER SYSTEM INSTALLATION SHALL CONFORM TO THE CURRENT ASIAN IMPROVEMENT DISTRICT STANDARDS AND SPECIFICATIONS AND CURRENT AWWA STANDARDS.
  2. HORIZONTAL CLEARANCE BETWEEN WATER MAINS AND ANY PARALLEL ALIGNED UTILITY SHALL BE AT LEAST TEN FEET (10'). WHEN ANOTHER UTILITY CROSSES A WATER LINE THEN THE OTHER UTILITY SHALL CROSS PERPENDICULARLY. ONLY DRY UTILITIES SHALL CROSS DRY. THE WATER MAIN IF DRY IS DETERMINED TO BE UNSAFE CONSULT WITH DISTRICT ENGINEER FOR APPROVAL. A MINIMUM OF EIGHT INCH (8") VERTICAL SEPARATION IS REQUIRED BETWEEN THE TWO MAINS. THE BIDDING 6-INCH MINIMUM AND PIPING (12 INCHES MINIMUM) SHALL BE BIDDING 8" APPROVED AND 90% MODIFIED PROCTOR DENSITY. TO A MINIMUM COVER REQUIRED SHALL BE FIFTY EIGHT INCHES (58"). SHOULD COVER BE INSUFFICIENT TO ADEQUATELY PROTECT THE UTILITY FROM ANY LOADING, ENCASING OF CANS SHALL BE PROVIDED TO PROTECT THE AFFECTED UTILITY. COMPLETED TRENCH BACKFILL, UNSTRAINED ROSE GARDEN AND ASPHALT PER LOCAL PERMITS. 90% MODIFIED PROCTOR DENSITY.
  3. PRESERVE TEST OF THE WATER LINE IS REQUIRED TO HEAD TWO HUNDRED POUNDS PER SQUARE INCH (200 PSI) TEST PRESSURE FOR TWO (2) HOURS UNLESS OTHERWISE REQUIRED.
  4. TRACER WIRE SHALL BE INSTALLED DIRECTLY ABOVE THE TOP OF ALL CULINARY WATER PIPES. TRACER WIRE SHALL BE LOCATED INSULATED OFFER WIRE. TRACER WIRE SHALL BE LOCATED TWENTY INCHES (2") FROM THE TOP OF THE MAIN.
  5. IDENTIFY ALL NEW WATER MAINS TO BE DISINFECTED, AND A PASSING BACTERIAL TEST OBTAINED PRIOR TO CONNECTING TO ANY EXISTING WATER INFRASTRUCTURE. CHLORINATION OF THE COMPLETED WATER LINES SHALL BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO AID. BACTERIAL SAMPLES WILL BE COLLECTED DRY AND PERSONNEL AT THE REQUEST OF THE AID INSPECTOR. CONTRACTOR IS RESPONSIBLE FOR TAKING CARE TO CLEAN ALL PIPE AND KEEP OTHER HARMFUL BACTERIA FROM ENTERING THE PIPE DURING STAGING, STORAGE AND CONSTRUCTION.
  6. CULINARY WATER TRENCHES AND MAINS. CONSTRUCTION TESTS ARE REQUIRED EVERY 20 LINEAR FEET (20') AT HALF AND FULL DEPTH FOR ANY MAINS WATER INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEST RESULTS TO AID. COMPLETION SHALL BE TO 95% OR GREATER RELATIVE TO A STANDARD PROCTOR DENSITY. IF GREATER THAN 95% COMPLETION, TRENCHES MUST BE SUPPLY FREE FROM WATER BEING EXCAVATION. PIPING INSTALLATION, AND THE INSTALLATION OF MATERIAL IN THE PIPE ZONE. EXCAVATION OF ANY TRENCH MUST BE TO QUALITY STANDARDS.
  7. VALVES VALVES SHALL BE LOCATED IN ALL INTERSECTIONS AND CONNECTIONS AND SHOWN ON THE PLANS. ALL VALVES SHALL BE 12 INCH DUCTILE IRON GATE VALVES.
  8. JOINTS SHALL BE REPAIRABLE BACK FROM THE FIRST PROTECTING FITTINGS IS SHOWN ON A DETAIL SHEET.
  9. FIRE HYDRANTS FIRE HYDRANTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS. NO FIRE HYDRANT SPACING SHALL EXCEED 300 FEET IN ALL CASES OF RESIDENTIAL DWELLINGS, COMMERCIAL AND MANUFACTURING USES, AND NOT EXCEED 500 FEET IN FAMILY DWELLING USE AREAS. HYDRANTS SHALL BE CONNECTED TO THE MAIN USING A MINIMUM 1/2" DIAMETER PIPE.
  10. CONCRETE THURST BLOCKS PROVIDING CONCRETE THURST BLOCKS AT ALL TAPS, TEMPORARY DEAD ENDS AND AT THE BASE OF ALL HYDRANTS. PLACE THURST BLOCKS DIRECTLY AGAINST UNDISTURBED EARTH. PROVIDE ROAD BREAKERS ON ALL THURST BLOCKS. ALL OTHER LOCATIONS SHALL BE ON RESTRAINED JOINTS TO HANDLE THURST UNLESS DIRECTED OTHERWISE BY THE DISTRICT ENGINEER.
  11. WATER VALVES TO METERS ROSES NO METER BOX SHALL BE ALLOWED IN ANY STREET, DRIVEWAY, DRIVEWAY FLARE, OR SIDEWALK. SUPPORT LATERALS NO COMMON USE LATERALS SHALL BE ALLOWED. ALLOWABLE SERVICE LINE SHALL BE CONSTRUCTED AT PERMITTER'S DISCRETION. MINIMUM SIZE SHALL BE ONE INCH (1") DIAMETER FOR RESIDENTIAL CONNECTIONS.
  12. CONTRACTOR IS RESPONSIBLE FOR PORTALING AND LOCATING ALL EXISTING POTENTIAL INTERFERING UTILITIES IN ADVANCE OF CONSTRUCTION OF THE NEW WATER LINE. CALL BEFORE DIGGING IN ADVANCE OF POTENTIAL INTERFERING UTILITIES. ALL CONFLICTS WILL BE BRIDGED TO THE ATTENTION IN THE FIELD TO THE DISTRICT ENGINEER TO EVALUATE AND DETERMINE THE MEANS AND METHOD TO MITIGATE THE CONFLICT.
  13. SURVEY: CONTRACTOR SHALL PROVIDE SURVEYING WITH LINES AND POINTS WITH POINTS TO LOCATE THE PROPOSED WATER LINE INSTALLATION. CONTRACTOR SHALL SCHEDULE A FIELD WALK THROUGH TO IDENTIFY ANY CONFLICTS WITH THE DISTRICT ENGINEER.
  14. CONTRACTOR SHALL PROVIDE KID AND THEIR CUSTODIANS WITH 48 HOURS NOTICE BEFORE DISCONNECTING OR CONNECTING OR IMPACTING EXISTING WATER LINES AND CONNECTIONS. COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE DISTRICT AND ESPECIALLY WHEN PERFORMING WORK NEAR SAMS BLVD.
  15. ALL WORK PERFORMED ON GRANITE SCHOOL DISTRICT PROPERTY WILL BE COMPLETED AFTER JUNE 1, 2025 AND COMPLETED BY AUGUST 14, 2025.



No.	Revision/Issue	Date

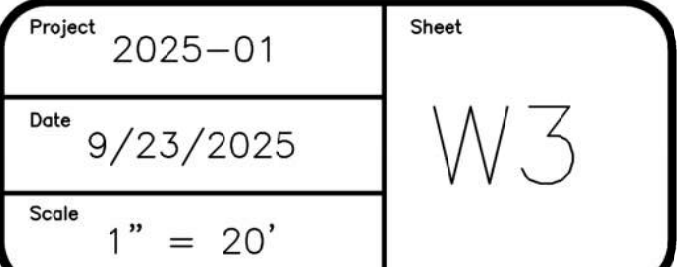


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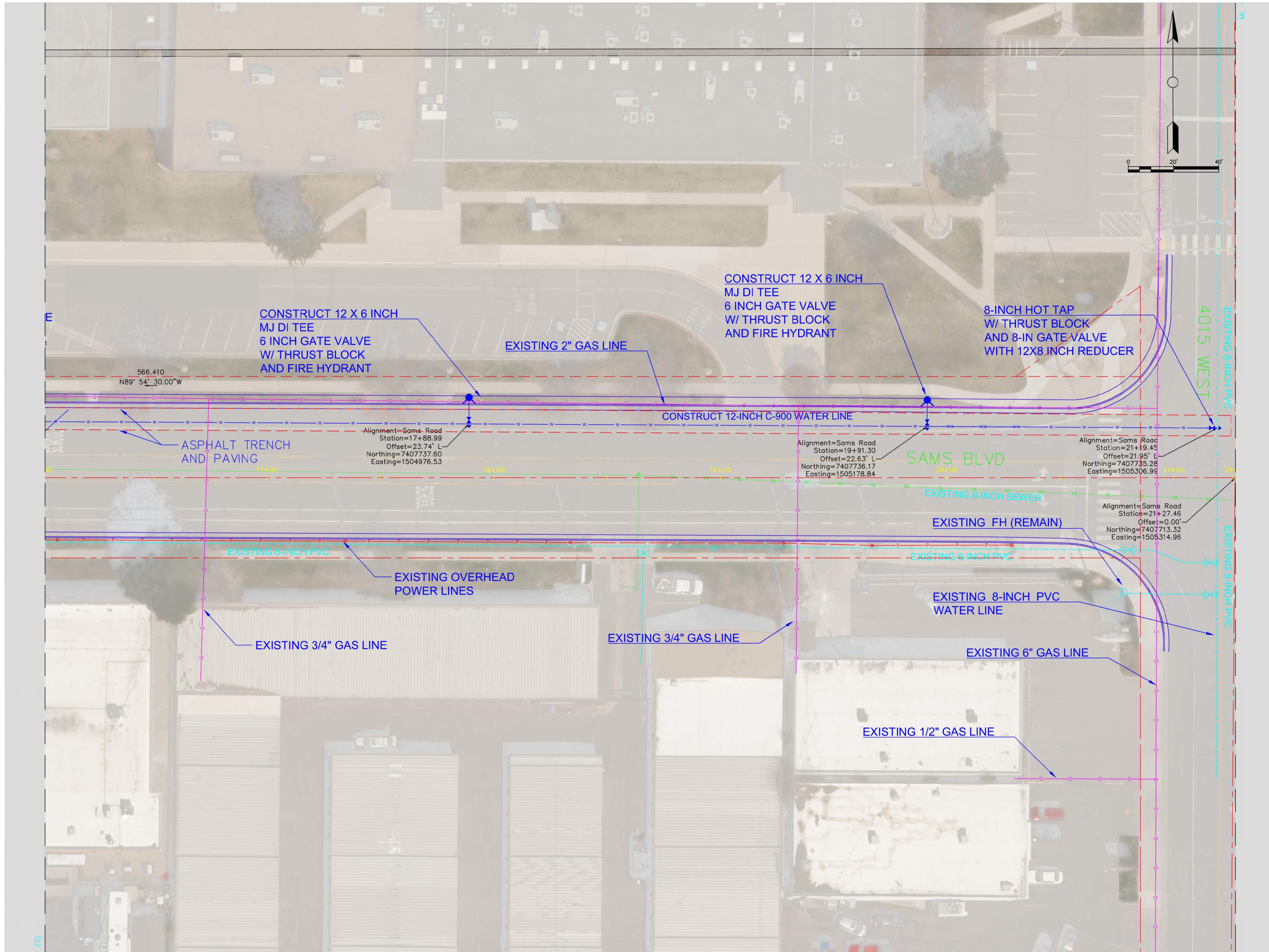
KEARNS JR. HIGH WATER LINE REPLACEMENT PROJECT  
SAMS BLVD. (4320-4015 WEST)

Project	2025-01	Sheet
Date	9/23/2025	W2
Scale	1" = 20'	









General Notes

- WATER GENERAL NOTES**
1. ALL WATER SYSTEM INSTALLATION SHALL CONFORM TO THE CURRENT KEARNS IMPROVEMENT DISTRICT STANDARDS AND SPECIFICATIONS AND CURRENT UTAH STANDARDS.
  2. HORIZONTAL CLEARANCE BETWEEN A WATER MAIN AND ANY PARALLEL ADJACENT UTILITY SHALL BE AT LEAST TEN FEET (10'). WHEN ANOTHER UTILITY CROSSES A WATER LINE, THEN THE OTHER UTILITY SHALL CROSS PERPENDICULARLY. ONLY DRY UTILITIES SHALL CROSS ABOVE THE WATER MAIN. IF THIS IS DETERMINED TO BE UNFEASIBLE, CONSULT WITH DISTRICT ENGINEER FOR APPROVAL. A MINIMUM OF EIGHTEEN INCH (18") VERTICAL SEPARATION IS REQUIRED BETWEEN THE TWO MAINS.
  3. THE BEDDING, JOINTS, MINIMUM, AND PIPE JOINT LENGTHS MINIMUM SHALL BE HEDED IN APPROVED SAND 90°-MOORDED PROCTOR DENSITY. THE MINIMUM COVER REQUIRED SHALL BE FORTY EIGHT INCHES (48"), SHIELD COVER BE INSUFFICIENT TO ADEQUATELY PROTECT THE UTILITY FROM ANY LANDING, ENCUMBERMENT OR CASINGS SHALL BE PROVIDED TO PROTECT THE AFFECTED UTILITY. COMPACTED FILL SHALL BE UNFILLABLE UNLESS BASE COURSE AND ASPHALT PER LOCAL PERMIT. 90°-MOORDED PROCTOR DENSITY.
  4. PRESSURE TEST OF THE WATER LINE IS REQUIRED TO HOLD TWO HUNDRED POUNDS PER SQUARE INCH (200 PSI) TEST PRESSURE FOR TWO (2) HOURS AND THE RESULTS REQUIRED.
  5. TRACER WIRE SHALL BE INSTALLED DIRECTLY ABOVE THE TOP OF ALL CLEANSKY WATER PIPES. TRACER WIRE SHALL BE GALVANIZED INSULATED COPPER WIRE. TRACER WIRE SHALL BE LOCATED TWENTY INCHES (2") FROM THE TOP OF THE MAIN.
  6. DISINFECTION: ALL NEW WATER LINES ARE TO BE DISINFECTED, AND A FLUSHING SCHEDULE TEST MUST BE COMPLETED PRIOR TO CONNECTING TO ANY EXISTING WATER INFRASTRUCTURE.
  7. CLEANING: ALL NEW WATER LINES SHALL BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO KID. WATER MAINS SHALL BE CLEANED AND DISINFECTED AT THE REQUEST OF THE KID INSPECTOR. CONTRACTOR IS RESPONSIBLE FOR TAKING CARE TO LEAVE ALL PIPES AND KEEP OTHER HANDLES, BUCKETS, FROM ENTERING THE PIPE DURING STAGING, STORAGE, AND CONSTRUCTION.
  8. CLEANSKY WATER TRENCH REMEDIATION: CONSTRUCTION TESTS ARE REQUIRED EVERY 20' LINE OF PIPE (20' AT JAIL AND FULL DEPTH FOR ANY MAIN WATER INSTALLATION). THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEST RESULTS TO KID. CONTRACTOR SHALL BE TOUGH OR GATE VALVE TO A STANDARD PROCTOR DENSITY. IF GROUNDWATER IS ENCOUNTERED, TRENCHES MUST BE LEFT OPEN FROM WATER DURING EXCAVATION, PIPE INSTALLATION, AND THE INSTALLATION OF MATERIAL IN THE TRENCH. EXCAVATION OF ANY TRENCH MUST BE TO A SAFETY STANDARD.
  9. VALVES: VALVES SHALL BE LOCATED AT ALL INTERSECTIONS AND CONNECTIONS AS SHOWN ON THE PLANS. ALL VALVES SHALL BE 12 INCH DUCTILE IRON GATE VALVES.
  10. JOINTS: JOINTS SHALL BE REINFORCED AT ALL VALVES, TEES, CROSSES, BENDS, VENTS AND MISC. FITTINGS. THE NUMBER OF JOINTS THAT MUST BE REINFORCED SHALL BE THIRTY PERCENT OF JOINTS SHOWN ON A TYPICAL SHEET.
  11. FIRE HYDRANTS: FIRE HYDRANTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS. NO FIRE HYDRANT SPACING SHALL EXCEED 500 FEET IN A RURAL AREA OF RURAL DWELLINGS, COMMERCIAL AND MANUFACTURING USES AND NOT EXCEED 300 FEET IN A RURAL DWELLING OR AREA. HYDRANTS SHALL BE CONNECTED TO THE MAIN USING A MINIMUM 8 INCH (8") DIAMETER PIPE.
  12. CONCRETE THIRST BLOCKS: PROVIDE CONCRETE THIRST BLOCKS AT ALL TOP, TURN, AND DEAD ENDS AND AT THE END OF ALL HYDRANTS. PLACE THIRST BLOCKS DIRECTLY AGAINST UNDEVELOPED LATELY. PROVIDE BOND BREAKERS ON ALL THIRST BLOCKS. ALL OTHER LOCATIONS SHALL BE ON REINFORCED JOINTS TO HANDLE THIRST UNLESS DIRECTED OTHERWISE BY THE DISTRICT ENGINEER.
  13. WATER VALVES: METER BOXES NO METER BOX SHALL BE ALLOWED IN ANY STREET, DRIVEWAY, DRIVEWAY, OR SIDEWALK. SERVICE LATERALS: NO COMMON USE LATERALS SHALL BE ALLOWED. ALLOWING SERVICE LINES SHALL BE CONSTRUCTED AS PER SECTION 2.1. MINIMUM SIZE SHALL BE ONE INCH (1") DIAMETER FOR RESIDENTIAL CONNECTIONS.
  14. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND LOCATING ALL EXISTING POTENTIAL CONFLICTING UTILITIES AND ANY OTHER CONSTRUCTION OF THE NEW WATER LINE. CALL BLUE STAKES IN ADVANCE OF ANY CONSTRUCTION. ALL CONFLICTS WILL BE BROUGHT TO THE ATTENTION OF THE FIELD TO THE DISTRICT ENGINEER TO EVALUATE AND DETERMINE THE MEANS AND METHOD TO RESOLVE THE CONFLICTS.
  15. SURVEY: CONTRACTOR SHALL PROVIDE SURVEYING WITH STAKES AND PAINT WITH ORANGE OR RED AT THE PROPOSED WATER LINE INSTALLATION. CONTRACTOR SHALL SCHEDULE A FIELD WALK THROUGH TO IDENTIFY ANY CONFLICTS WITH THE DISTRICT ENGINEER.
  16. CONTRACTOR SHALL PROVIDE AID AND THEIR COORDINATES WITH 40-FOOT SPACING BEFORE DISCONNECTING OR CONSTRUCTING OR IMPACTING EXISTING WATER LINES AND CONSTRUCTION. COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE DISTRICT AND ESPECIALLY WHEN PERFORMING WORK NEAR KEARNS JR. HIGH.
  17. ALL WORK SHALL BE COMPLETED BY AUGUST 14, 2025.



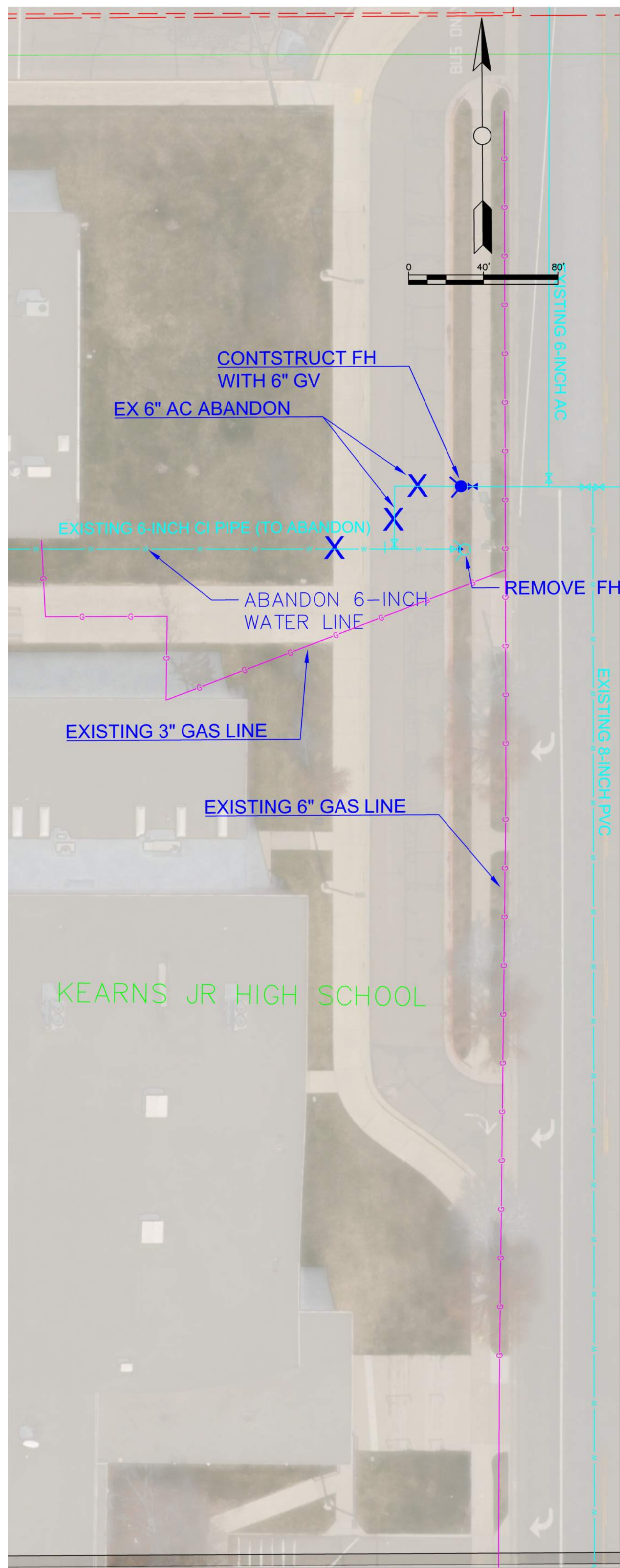
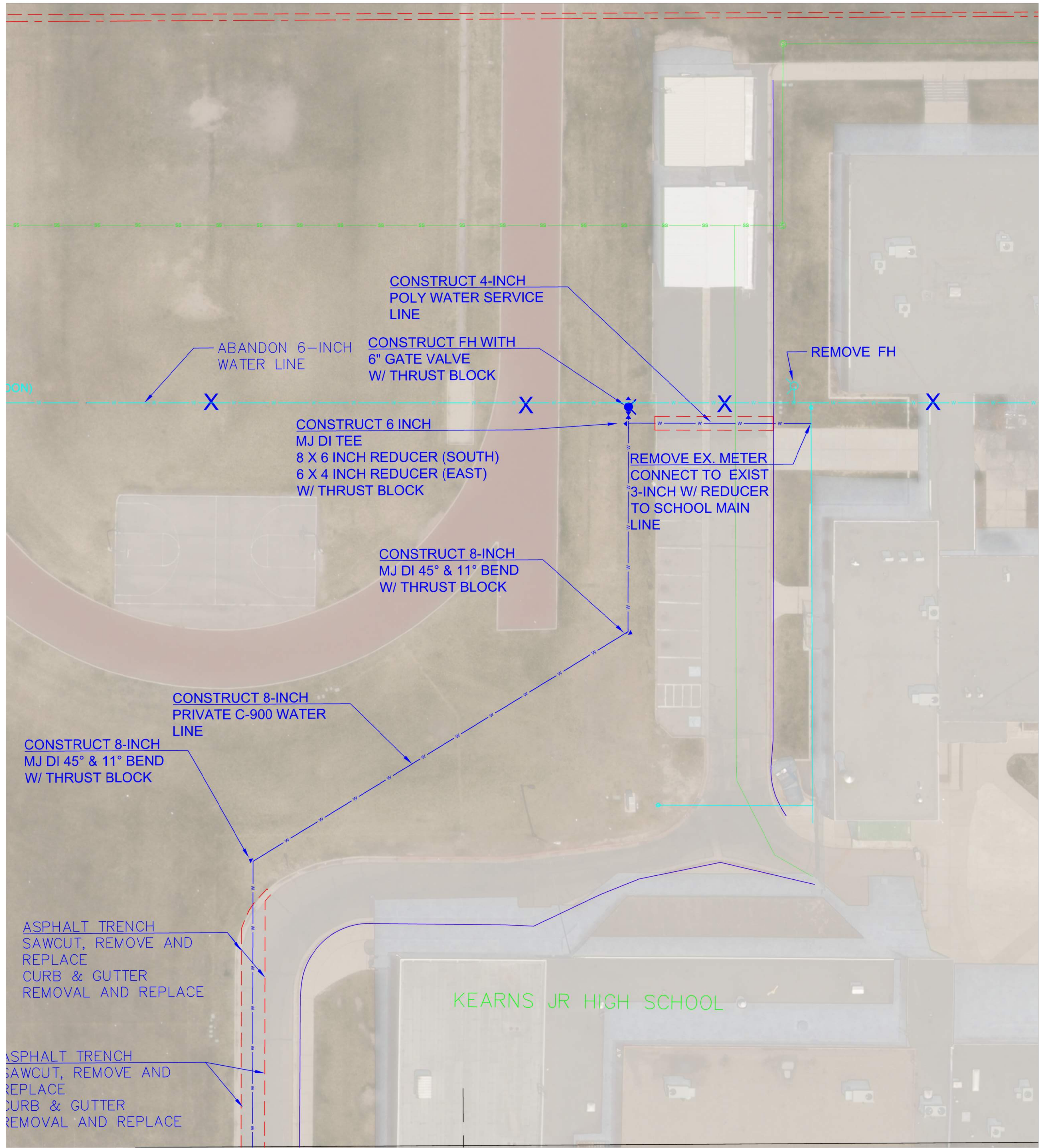
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Project Name and Address  
KEARNS JR. HIGH WATER LINE  
REPLACEMENT PROJECT  
SAMS BLVD. (4320-4015 WEST)

Project	2025-01	Sheet
Date	9/23/2025	W4
Scale	1" = 20'	






General Notes

WATER GENERAL NOTES

- ALL WATER SYSTEM INSTALLATION SHALL CONFORM TO THE CURRENT KID DISTRICT DISTRICT STANDARDS AND SPECIFICATIONS AND CURRENT AWWA STANDARDS.
- HORIZONTAL CLEARANCE BETWEEN A WATER MAIN AND ANY PARALLEL ADJACENT UTILITY SHALL BE AT LEAST TEN FEET (10'). WHEN ANOTHER UTILITY OR SHOWN WATER LINE TIES, THE OTHER UTILITY SHALL CROSS PERPENDICULARLY. ONLY DRY UTILITIES SHALL CROSS ABOVE THE WATER MAIN. IF THIS DETERMINED TO BE UNFEASIBLE, CONSULT WITH DISTRICT ENGINEER FOR APPROVAL. A MINIMUM OF DIFFERENCE (12") VERTICAL SEPARATION IS REQUIRED BETWEEN THE TWO MAINS.
- THE BEDDING, SANDS, MINIMUM, AND PROTECTIVE LAYERS MINIMUM SHALL BE BEDDED IN APPROVED SAND 95% MODIFIED PROCTOR DENSITY. THE MINIMUM COVER REQUIRED SHALL BE FIFTY EIGHT INCHES (58"). BACKFILL COVER BE INSTALLED TO ADEQUATELY PROTECT THE UTILITY FROM ANY LOADING. ENCASEMENT OR CASINGS SHALL BE PROVIDED TO PROTECT THE AFFECTED UTILITY. COMPACTED TRENCH BACKFILL, EXISTED USE COARSE AND ASPHALT PER LOCAL PERMIT, MIN 95% MODIFIED PROCTOR DENSITY.
- PRESSURE TEST OF THE WATER LINE IS REQUIRED TO HOLD TWO HUNDRED POUNDS PER SQUARE INCH (200 PSI) TEST PRESSURE FOR TWO (2) HOURS (120 MIN) OTHERWISE REQUIRED.
- TRACER WIRE SHALL BE INSTALLED DIRECTLY ABOVE THE TOP OF ALL CLEAN WATER PIPES. TRACER WIRE SHALL BE ZINC-ALLOY INSULATED COPPER WIRE. TRACER WIRE SHALL BE LOCATED TWELVE INCHES (12") FROM THE TOP OF THE MAIN.
- DISINFECTION: ALL NEW WATERLINES ARE TO BE DISINFECTED, AND 1. PASSING BACTERIA TEST OBTAINED PRIOR TO CONNECTING TO ANY EXISTING WATER MAIN. THE COLORIMETER OF THE COMPLETED WATER LINES SHALL BE COMPLETED BY THE CONTRACTOR. (1) NO ADDITIONAL COPY TO KID. BACTERIA SAMPLES WILL BE COLLECTED BY KID PERSONNEL AT THE REQUEST OF THE DISTRICT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR TAKING CARE TO CLEAN ALL PIPE AND KEEP OTHER UNRELATED BACTERIA FROM ENTERING THE PIPE DURING STORAGE, STORAGE AND CONSTRUCTION.
- CLEANLY WATER TRENCHING AND BORE COMPACTOR TESTS ARE REQUIRED EVERY 20 LINEAR FEET (20') AT HALF AND FULL DEPTH FOR ANY MAIN WATERLINES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEST RESULTS TO KID. COMPACTOR TESTS SHALL BE TO 95% OR GREATER RELATIVE TO A STANDARD PROCTOR DENSITY. IF GROUNDWATER IS ENCOUNTERED, TRENCHES MUST BE KEPT FREE FROM WATER DURING EXCAVATION, PIPE INSTALLATION, AND THE INSTALLATION OF MATERIAL IN THE PIPE JOINT. EXCAVATION OF ANY TRENCH MUST BE TO COMPLY WITH STANDARDS.
- VALVE VALVES SHALL BE LOCATED IN ALL INTERSECTIONS AND CONNECTIONS AS SHOWN ON THE PLANS. ALL VALVES SHALL BE 12 INCH DUCTILE IRON GATE VALVES.
- JOINTS SHALL BE RESTRAINED AT ALL VALVES, TEES, CROSSES, BENDS, WYES, AND MEGA LOC FITTINGS. THE NUMBER OF JOINTS THAT SHALL BE RESTRAINED SHALL BE DETERMINED BY THE DISTRICT ENGINEER. THE NUMBER OF JOINTS SHALL BE SHOWN ON THE PLANS.
- PIPE HYDRANTS: THE HYDRANTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS. NO PIPE HYDRANT SPACING SHALL EXCEED 50 FEET IN RESIDENTIAL AREAS, 100 FEET IN COMMERCIAL, INDUSTRIAL, AND MUNICIPAL AREAS. HYDRANTS SHALL BE CONNECTED TO THE MAIN USING A MINIMUM 3/4 INCH BY 7/8 INCH DIAMETER PIPE.
- CONCRETE TIE BLOCKS: PROVIDE CONCRETE TIE BLOCKS AT ALL TAP, TAMP, TAP, DEAD ENDS, AND AT THE BASE OF ALL HYDRANTS. PLACE TIE BLOCKS DIRECTLY AGAINST UNDISTURBED EARTH. PROVIDE BLOCK HEADERS ON ALL TIE BLOCKS. ALL OTHER LOCATIONS SHALL BE RESTRAINED JOINTS TO HANDLE THE LINE UNLESS DIRECTED OTHERWISE BY THE DISTRICT ENGINEER.
- WATER VALVES: METER BOXES NO METER BOX SHALL BE ALLOWED IN ANY STREET, DRIVEWAY, DRIVE, OR FLEET OR SIDEWALK. SERVICE LATERALS NO CONDUIT IN THE LATERAL SHALL BE ALLOWED. ALL SERVICE LATERALS SHALL BE CONSTRUCTED AS PER SECTION 2.1. MINIMUM SIZE SHALL BE ONE INCH (1") DIAMETER FOR RESIDENTIAL CONNECTIONS.
- CONTRACTOR IS RESPONSIBLE FOR NOTICING AND LOCATING ALL EXISTING POTENTIAL CONFLICTING UTILITIES IN ADVANCE OF CONSTRUCTION OF THE NEW WATER LINE. CALL BEHIND STAKE IN ADVANCE OF ANY TRENCHING. ALL CONFLICTS WILL BE BROUGHT TO THE ATTENTION OF THE FIELD TO THE DISTRICT ENGINEER TO EVALUATE AND DETERMINE THE MEANS AND METHOD TO MITIGATE THE CONFLICT.
- SURVEY: CONTRACTOR SHALL PROVIDE SURVEYING WITH STAKES AND PLANT TO OPERATE IN THE PROJECT WATER LINE INSTALLATION. CONTRACTOR SHALL SCHEDULE A FIELD WALK THROUGH TO IDENTIFY ANY CONFLICTS WITH THE DISTRICT ENGINEER.
- CONTRACTOR SHALL PROVIDE 24 HOUR NOTICE TO THE CUSTOMER WITH 48 HOUR NOTICE BEFORE DISCONNECTING OR CONNECTING OR DUCTING EXISTING WATER LINES AND CONNECTIONS. COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE DISTRICT AND ESPECIALLY WHEN PERFORMING WORK NEAR ADJACENT HIGH.
- ALL WORK PERFORMED ON GRANTY SCHOOL DISTRICT PROPERTY WILL BE COMPLETED BY AUGUST 14, 2025.

No.	Revision/Issue	Date

Firm Name and Address



Kearns Improvement District

Project Name and Address

KEARNS JR. HIGH WATER LINE REPLACEMENT PROJECT  
SAMS BLVD. (4320-4015 WEST)

Project	Sheet
2025-01	W5
Date	
9/23/2025	
Scale	1" = 40'



