

WILLIAMS GAS PIPELINE REQUIREMENTS FOR LANDOWNER & THIRD PARTY CONSTRUCTION

The following Williams Gas Pipeline (WGP) specifications are minimum requirements to be followed when planning land use development on or near WGP right-of-way. Each proposed development or activity requires a site specific evaluation by a qualified WGP representative. It should be understood that the WGP review of the proposed activity may require more stringent protective measures than outlined below.

PIPELINE FACILITIES AND LEGISLATION

WGP owns and operates the Transcontinental Gas Pipe Line Company, LLC and Northwest Pipeline GP high-pressure natural gas pipeline systems. WGP's pipeline facilities include compressor stations, meter stations, storage facilities, cathodic protection equipment, valve settings and other facilities located within the limits of its rights-of-way, leased and fee properties.

WGP is regulated by the Department of Transportation, Pipeline & Hazardous Material Safety Administration (PHMSA). The pipeline safety regulations are set forth in Title 49, Code of Federal Regulations, Part 192 "Transportation of Natural and Other Gas by Pipeline – Minimum Federal Standards".

WGP will require that all Federal, State and local ordinances and applicable utility set backs are complied with to the full extent.

ENCROACHMENTS

It is WGP's philosophy to minimize encroachments and excavation activity within the limits of our pipeline right of way. Encroaching parties will design projects such that proposed improvements remain outside the pipeline right-of-way. Improvements that will encroach into the right-of-way will be designed and constructed such that the safe operation and maintenance of the pipeline(s) is not diminished. Many of WGP's right-of-way agreements prohibit encroachments. WGP will enforce applicable provisions in its right-of-way agreements where it believes the continued safe operation and maintenance of the pipeline facilities could be threatened.

NOTIFICATION AND CONSTRUCTION SAFETY REQUIREMENTS

1. In order to prevent unnecessary delays, WGP encourages close communication with our representative throughout your entire project. A WGP representative should participate in all pre-construction meetings. In addition, WGP can conduct a safety/informational presentation to any interested parties, including contractors, local governmental maintenance crews and developers.
2. "One Call" systems require 48 to 72 hours notice prior to any excavation activities or equipment use on or in close proximity to WGP's pipeline facilities. Dial 811 to be connected to your State One Call system. No equipment use or excavation will occur in the vicinity of WGP's facilities until notification to "One Call" has been made. A WGP representative will be on site prior to and during any equipment use or excavation activities. Any crossings made without a WGP representative on site will be excavated at the excavator's expense to provide WGP an opportunity to inspect all affected pipeline facilities.
3. Excavations must be barricaded to protect WGP's pipelines from exposure to vehicular traffic and to ensure public safety. WGP representatives must be provided safe access to all open excavations. Excavations must be properly sloped or shored in accordance with OSHA regulations.

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PLAN DESIGN AND REVIEW REQUIREMENTS

1. Residential and/or commercial developments will be laid out such that the right-of-way is designated as "open" or "common" space. Maintaining an open right-of-way reduces public exposure and minimizes disruptions during pipeline maintenance and construction. Lot divisions will be established on either side of the right-of-way resulting in the actual right-of-way being "open" or "common" areas.
2. In most cases, WGP will require the submittal of two or more full size plan and profile drawings to the appropriate WGP office for prior review and written approval by WGP. All drawings must show, in detail, all of WGP's facilities and other features that will allow WGP to determine the impact of the proposed construction or maintenance activity on its facilities. Encroachment plans will include a scope of work, description, and a location map depicting the project site area. Sufficient geographical references such as legal property lines, roads, and appropriate deed information for the properties involved will be provided.
3. In order to ensure that all proposed improvements are designed in accordance with WGP's encroachment specifications, WGP requires a minimum of thirty business days lead-time to review proposed encroachments. Encroachments involving road crossings will require additional review time. Any proposed road which requires pipeline modifications or a dedicated right-of-way will require significant lead-time.
4. If there are any changes to approved plans, additional review by WGP and subsequent written authorization will be required.
5. In some cases, there is a significant delay between the review and approval of submitted plans and actual construction. In such cases, proposed encroachment related activities will be subject to WGP's requirements in effect at the time the work actually takes place.

WGP EASEMENT, PERMITS AND AGREEMENTS

1. A **WGP Encroachment/Foreign Line Crossing Permit Form** or a **letter of no objection** may be required for any proposed construction within WGP's right-of-way. This document prepared by WGP, will outline the responsibilities, conditions, and liabilities of each party. If required, this document must be executed by the encroaching party and in WGP's possession prior to any work being performed on the right-of-way.
2. WGP will determine if a recorded **encroachment agreement** will be required for any proposed construction within WGP's right-of-way. This agreement, prepared by WGP, will outline the responsibilities, conditions, and liabilities of each party. This agreement will be fully executed and in WGP's possession prior to any work being performed on the right-of-way.
3. WGP will determine if a **reimbursement agreement** will be required for any construction within WGP's right-of-way. This agreement, prepared by WGP, will outline the reimbursement procedure for necessary and appropriate preliminary engineering and actual field inspection work. This fully executed agreement, including a check made payable to the applicable WGP pipeline company for the estimated cost of WGP's services, will be in WGP's possession prior to any work being performed on the right-of-way.

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GENERAL REQUIREMENTS

1. No above ground structures or appurtenances are to be located within the WGP right-of-way. The structures and appurtenances include, but are not limited to: utility poles, towers, foundations, guy wires, structures supporting aerial lines, satellite dishes, manholes, catch basins, utility pedestals, transformers, fire hydrants, utility sheds, decks, swimming pools with associated improvements, etc.
2. An authorized WGP representative must be on site prior to and during any surface-disturbing work or equipment crossings performed within the right-of-way. WGP's representative will assist in determining the location of the pipeline, the right-of-way width and existing cover over the pipeline and will remain on site to monitor all activities within the right-of-way.
3. No cut or fill on the WGP right-of-way is permitted without WGP written approval.
4. WGP, at its discretion, may request evidence of comprehensive general liability insurance coverage (minimum of \$2,000,000 coverage) and other appropriate and usual insurance prior to any activity, maintenance and/or construction on or near WGP's right-of-way and facilities. In the event of significant excavation under or over WGP pipelines, WGP will require that the applicable WGP pipeline company be **named as additional insured on the Certificate of Liability Insurance**. The insurance limits, terms and conditions that may be required will be dependent on the specific facilities potentially impacted and what would be usually and prudently obtained in similar industry situations.
5. All foreign lines will cross WGP's right-of-way at an angle as near to 90 degrees as possible. In situations where there are multiple parallel WGP pipelines, the proposed foreign line(s) will either cross over or under all of WGP pipelines the right-of-way. No horizontal or vertical bends are permitted within WGP's right-of-way. Parallel occupancy of WGP's right-of-way will not be permitted.
6. All foreign lines crossing WGP's pipeline or related facilities will be installed with a minimum of 24" of clearance between the existing WGP facilities and the proposed foreign line. The foreign line will be installed at a uniform depth across the full width of the WGP right-of-way. WGP may require that all foreign lines be installed under its existing pipeline(s) and related facilities.
7. WGP facilities are electrically protected against corrosion. Each metallic foreign line that enters or crosses WGP's right-of-way must have a test lead installed. In addition, the utility contractor installing the metallic foreign line must excavate and expose one or more of WGP's existing pipelines to provide for the installation of test leads by WGP personnel. All necessary measures (coatings, electrical bonds, etc.) will be taken to ensure that the proposed pipe or utility is adequately protected from potential interference effects. Requests for cooperative testing will be directed to WGP's Division Office, "Attn.: Pipeline Integrity Team Lead".
8. WGP may require that foreign lines be identified with permanent aboveground markers where the lines enter and exit the WGP right-of-way. It is the line owner's responsibility to obtain any rights to install the markers, and to maintain the markers. A direct burial warning tape should be placed 12" to 18" above the foreign line and extend across the entire width of WGP's right-of-way.
9. Foreign lines crossing WGP's facilities will be installed in accordance with all applicable codes and requirements governing such installations.
10. Stockpiling brush, trash, or other debris on the right-of way is prohibited, as it may conceal pipeline markers and hinder pipeline inspections or routine maintenance.

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FENCES

1. A site specific inspection is required to determine whether the proposed fence posts must be kept a minimum of 4' or 5' from the edge of any WGP pipeline or related pipeline facility. A WGP representative must be on site to determine the location of the fence posts within the right-of-way and for the duration of the digging of the posts. Posts installed within the right-of-way must be hand dug. All proposed fence crossings over WGP pipeline(s) will cross at an angle of 90°, or as near as reasonably practicable.
2. WGP will have the free right of ingress and egress. WGP may require that new fences have a 12' wide gate installed within the right-of-way at a location approved by WGP. The gate will be installed as to minimize vehicular and equipment travel over the existing WGP facilities.

LANDSCAPE GUIDELINES

1. No trees are permitted on WGP's right-of-way. Additionally, the canopy of any trees planted adjacent to the right-of-way must not extend into the right-of-way at maturity. Any branches extending into the right-of-way will be side cut by WGP at its discretion.
2. With prior approval from WGP, some types of low growing, shallow-rooted shrubs may be permitted on the right-of-way provided their maximum mature height will not exceed 5' and are not within 5' of the edge of the pipeline. WGP requires that the mature plantings will not prevent WGP representatives from seeing down the right-of-way during routine patrols or walking down the right-of-way directly over the pipelines as they perform required inspections. Under no circumstances will mechanical equipment be used in the planting of shrubs.
3. WGP reserves the right to cut and/or remove plantings as required in the operation, inspection and maintenance of its pipeline facilities; further, WGP assumes no responsibility for any cost involved in the replacement of said cut and/or removed landscape plantings.
4. All sprinkler or irrigation systems will require review by a WGP representative. Sprinkler heads will not be permitted within 10' of any pipeline or related facility. All crossings of the WGP pipeline(s) or related facilities with feeder lines will be hand dug.

STREETS, ROADS, TRAILS, PATHS AND DRIVEWAYS

1. WGP must complete a preliminary engineering evaluation for all roads, streets, driveways, etc., proposed on WGP's right-of-way. Any pipe casing, concrete slabs, or other protection required by WGP will be installed at no expense to WGP. WGP may require a pipeline inspection prior to construction.
2. The recommended minimum total cover over WGP existing pipelines is 66" at all driveways, highways, roads, streets, etc. The recommended minimum total cover over WGP existing pipelines in adjacent drainage ditches is 48".
3. Vibratory equipment is prohibited within the limits of the WGP right-of-way. Vibratory equipment is not permitted to be used for achieving applicable compaction requirements.
4. Driveways, highways, roads, streets, etc. crossing over WGP pipeline facilities will cross at an angle as near to 90 degrees as possible. All crossings must be over straight pipe and at locations free of any crossovers. Parallel occupancy of the right-of-way will not be permitted.

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5. WGP will retain the right to cut all present and proposed driveways, highways, roads, streets, etc. and will have no responsibility for restoration, loss of use or access, or any other costs.
6. Access to the earth above each pipeline for leak detection (flame ionization) and cathodic protection surveys must be maintained.

EQUIPMENT USE IN CLOSE PROXIMITY TO THE PIPELINES

1. To protect WGP's pipeline(s) from external loading, WGP must perform an engineering evaluation to determine the effects of any proposed equipment use. Mats, timber bridges, or other protective materials deemed necessary by WGP will be placed over WGP facilities for the duration of any loading. Protective materials will be purchased, placed, and removed at no cost to WGP. The right-of-way must be returned to its original condition.
2. WGP may require temporary markings to identify areas where equipment use is authorized.
3. No vibratory equipment is permitted within the limits of, or in close proximity to, the WGP right-of-way.

DRAINAGE, IMPOUNDMENT OF WATER AND EROSION CONTROL

1. WGP may conduct preliminary engineering studies for any proposed drainage channels or ditches that will discharge toward or within the right-of-way. Drainage channels or ditches must be adequately protected from erosion and provide a minimum of 48" of cover over the pipeline(s). Altering (clearing, re-grading or changing alignment of) an existing drainage channel or ditch requires written approval from WGP.
2. Impoundment of water on WGP's right-of-way is not permitted. Soil erosion control measures will not be installed within the WGP right-of-way without prior written WGP approval.

EXCAVATIONS AND BLASTING

1. Plans for excavation on the right-of-way require prior approval by WGP. **No machine excavation will be performed within 24" of WGP's pipeline(s) or related facilities.** WGP's onsite representative may require hand digging at a distance greater than 24".
2. When a backhoe is used for excavation, the bucket teeth should be curled under each time the bucket is brought back into the ditch to reduce the chance of the teeth contacting the pipeline. Side cutters must be removed from all buckets. At the discretion of WGP's onsite representative, a bar may have to be welded across the bucket teeth.
3. No mechanical excavation may be performed by reaching over any WGP facilities.
4. Prior to any plowing or ripping of soil on the right-of-way, particularly in association with agricultural activities, plans should be reviewed with your local WGP representative to ensure proper cover exists. No vibratory plows are permitted to be used on the WGP right-of-way.
5. A detailed blasting plan must be submitted for review and written authorization prior to any proposed blasting within 200' (1,500' for surface mining) of WGP's pipeline facilities and a WGP representative must be on site during all blasting. In order to provide for necessary and appropriate analysis by WGP, each licensed blasting contractor must also complete and submit a WGP's Blasting Data Sheet. The blasting plan and data sheet(s) must be submitted a minimum of ten business days prior to the proposed blasting. Specific requirements applicable to proposed blasting will be provided to the licensed blasting contractor.

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BURIED COMMUNICATION (TELEPHONE, TV, DATA TRANSMISSION, FIBER OPTIC) AND BURIED POWER LINE CROSSINGS

1. Utilities crossing WGP facilities are required to be cased to protect the integrity of the utility and the safety of WGP and third party excavators in the future.
2. All buried communications (other than single residential telephone and TV) crossing WGP facilities will be installed in steel casing for the full width of WGP's right-of-way.
3. All buried electric cables (other than 24 volt DC power lines), including single residential service drops, crossing WGP facilities will be installed in steel casing for the full width of WGP's right-of-way.
4. All buried single residential telephone, cable TV and 24 volt DC power will be encased in schedule 40 PVC casing for the full width of WGP's right-of-way.
5. All fiber optic cable, including single drops, will be installed in steel casing for the full width of WGP's right-of-way.

SANITARY SEWER AND WATER CROSSINGS

All sanitary sewer and pressurized water lines will be protected with steel casing for the full width of WGP's right-of way. Gravitational flow systems will be either: (1) ductile iron or steel pipe (adequately protected from WGP's cathodic protection system), (2) plastic pipe installed in steel casing or (3) concrete pipe for the full width of WGP's right-of-way. No piping connections will be allowed within 5' of any WGP pipeline. All ductile iron utility crossings will include restrained joints for the full width of WGP's right-of way

COMBUSTIBLE MATERIAL LINES

1. All plastic combustible material lines will be installed in steel casing for the full width of WGP's right-of-way.
2. WGP may require that steel combustible material lines (adequately protected from WGP's cathodic protection system) be installed under existing WGP pipeline facilities

BORED CROSSINGS

1. WGP existing pipeline facilities will be test pitted to verify the horizontal and vertical location of all facilities prior to any proposed boring operations. Once all required test pits have been performed, both plan view and profile drawings will be submitted to WGP. Plan and profile drawings are required for all proposed boring operations.
2. All proposed bores will include the installation of steel casing for the full width of WGP's right-of-way
3. Prior to any boring, inspection holes will be excavated to verify the depth of the bore as it approaches each pipeline. Inspection holes must be excavated to allow WGP's on site representative to visually see the boring head prior to the point where it travels beneath each pipeline. The contractor must provide and maintain instrumentation to accurately locate the boring head.

OVERHEAD LINE CROSSINGS

1. Overhead line crossings will be installed with a minimum of 30' of vertical clearance above the WGP right-of-way to provide adequate equipment clearance. No poles or appurtenances will be located on the WGP right-of-way.

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2. Overhead line crossings will not be installed within 25' (measured horizontally) of any gas vent (e.g. relief valve, blow down vent).
3. Overhead lines will cross WGP's facilities at an angle as near to 90 degrees as possible. Parallel occupancy of the WGP's right-of-way will not be permitted.
4. In addition to these WGP minimum clearances, all local utility minimum clearances must be adhered to.

DISPOSAL SYSTEMS

No septic tanks, liquid disposal systems, or hazardous waste disposal systems will be allowed on WGP's right-of-way or within 25' of WGP's facilities. This prohibition includes, but is not limited to, facilities that have the potential of discharging effluent from sewage disposal systems, the discharge of any hydrocarbon substance, the discharge or disposal of any regulated waste, or any other discharge that may prove damaging or corrosive to WGP's facilities.

STATEMENT REGARDING RIGHTS

1. Nothing contained herein will be construed to convey, waive, or subordinate any of WGP's existing rights whatsoever.
2. WGP will be fully and completely compensated for any damages to its facilities resulting from the acts of third parties who are working in the vicinity of WGP's facilities with or without WGP's consent.
3. WGP will be indemnified from and against all claims, losses, demands, damages, causes of action, suits, and liability of every type and character, including all expenses of litigation, court costs, and attorneys fees, for injury to or death of any person, or for damage to any property, arising out of or in connection with third party work in the vicinity of WGP's facilities.