DESIGN AND CONSTRUCTION STANDARDS

FOR

THE CITY OF LIBBY, MONTANA

DECEMBER 2015

ADOPTED BY RESOLUTION 1888

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STANDARDS FOR DESIGN AND CONSTRUCTION

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1. Standards.

   The latest published edition of the Montana Public Works Standards Specifications (MPWSS) and Manual of Uniform Traffic Control Devices (MUTCD) are adopted in their entirety, except as amended by the latest edition of the City of Libby Standards for Design and Construction(LSDC). If provisions of the MPWSS conflicts with provisions of the LSDC, the LSDC will supersede the MPWSS.

   All new construction in Libby will conform to the Standards for Design and Construction. Requests for deviations from the Standards will be submitted to the City Administrator for review and approval, denial or conditional approval.

   The City of Libby has adopted ordinances regulating the Construction of Sewers and Water, Title 13, 13.02 thru 13.52 and 13.54 thru 13.68, respectively and Title 12, streets and sidewalks, 12.04 thru 12.44. If provisions of the LSDC conflict with the Ordinances, the Ordinances will supersede the MPWSS and LSDC.

2. Street Opening Permit.

   All construction, excavation, or other work within public right of way requires a Street Opening Permit. The permit is required for all street construction and repair, sidewalk and curb construction or repair, landscaping, driveway repair or construction and all above ground or underground utility repair and construction. Any activity which could cause a hazard to motorists or pedestrians also requires a permit. Such hazards are not limited to scaffolding, storage of materials, crane and equipment operation, demolition, sandblasting and painting. A traffic and/or pedestrian safety plan maybe required before the issuance of a permit. Permit requirements will be determined by the city Administrator.

   Emergency repairs maybe initiated without a permit, but not before notifying Police Dispatch of the event and need for emergency action. The next business day the contractor or utility shall apply for a permit. All standards of construction included herein shall apply to the construction.

   ALL equipment used within public right of shall have rubber tires or be equipped with triple grouser street pads. The contractor shall be responsible for all damages to City infrastructure within the public right of way caused by construction activities.

   The fee for the street opening permit is set by the Council. A completed application with the required fee is necessary for issuance of the permit. Applications are available at City Hall, 952 E. Spruce Street, Libby, Montana.

   A completed and approved Street Opening Permit and all other permits listed herein are required before construction commences on any project.

3. Water Service Application and Permit.

   Prior to issuance of a Street Opening Permit for a new water service an application shall be completed and submitted to the City. The application shall be an Application & Permit for a Water Service and Agreement for use. All fees must be paid with the application. If a service line has previously been stubbed to the property line or other accessible location. An application and Permit for water service and Agreement for Use is required prior to the connection of the service.

   The owner's contractor will provide all the equipment, labor and materials required for the service tap and service line, except the meter pit and meter, from the point of connection to the property line and restore the public right of way in accordance with the City Standards.

   Costs for the City supplied meter pit and meter shall be invoiced to the lot owner at the City cost. This cost shall be due within 30 days of mailing. Delayed payment will be considered as late and subject to the procedures for collection and termination of service.

   A water plant investment fee is charged at the time of application and must be paid as provided in 13.06.060 of the City Ordinances. The plant investment fee schedule is available from the City Administrator. Plant investment fees must be paid before service is provided.

4. Sewer Service Application and Permit.

   Prior to issuance of a Street Opening Permit for a new sewer service, an application shall be completed and submitted to the City. The application shall be an Application and Permit for Sewer Service. When necessary to tap an existing main for a service connection, the owner's contractor will provide the equipment, labor and materials required for the tap, install the service line from the main to the point of use and restore the public right of way as required by the City Standards. All fees must be paid with the application. An application and Permit for sewer service is required prior to the connection of the service.

   The fees must be paid as applicable if a service line has previously been stubbed for use.

   A sewer plant investment fee is charged at the time of application and maybe paid as provided in 13.06.060 of the City Ordinances. The plant investment fee schedule is available from the City Administrator. Plant investment fees must be paid before service is provided.

5. Storm Sewer Service and Permit.

   Prior to issuance of a Street Opening Permit for a new storm sewer connection, an application shall be completed and submitted to the City. The application shall be an

Application and Permit for Storm Sewer Service. When necessary to tap an existing main for service connection, the owner's contractor will provide the equipment, labor and materials required for the tap, install the service line to the point of use and restore the public right of way as required by City Standards. All fees must be paid with the application.

6. Applicable Laws and Indemnification of the City.

   The City of Libby is a superfund site for asbestos and groundwater contamination. All individuals and corporations are noticed herein any excavation may uncover substances such as asbestos or contaminated groundwater or other hazardous materials. Before excavation the owner or contractor should contact the nearest Environmental Protection Agency Office and request assistance. Contact information for assistance is; Asbestos Resource Program, 406-291-5335.

   The contractor shall give all notices and comply with all Federal, State and local ordinances and regulations affecting the conduct of the work and shall indemnify and hold harmless the City against any claim or liability arising from, or based on claims of violation of any such law, ordinance, regulation or any other governmental requirement, whether by himself or his employees.

7. Interruption of Service.

   Any construction which could interrupt normal operation of the City sewer, water, storm drain or transportation facilities requires notification to the City Administrator, property owners/ residents affected not less than 48 hours before the planned interruption. The contractor or owner shall notify the Libby Police Department and Lincoln County Fire Department at least 48 hours prior to any street closures. The contractor shall also notify utility users affected by the interruption of service of the type and estimated duration of the interruption at least 48 hours prior to the planned interruption.

   In the event of an emergency interruption during normal business hours, the Contractor shall notify the City Administrator, police department and fire department as soon as possible. Affected residents shall be notified as soon as possible by personal contact, door flyers or telephone. The contact shall provide either an estimate of the interruption or contact information for updates on progress in correcting the interruption.

8. Traffic and Pedestrian Control

   A Traffic and Pedestrian Control Plan will required for all construction in the public right of way and must be approved prior to construction by the City Administrator. The plan shall be prepared using the recommendations of the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD). The location and description of all traffic and pedestrian control devices shall be shown on the plan. The plan must be approved by the City Administrator prior to starting construction. All components of the plan must be

in place before construction starts. If the required devices are not in place the contractor will be issued a stop work order.

All devices, barricades, and obstructions shall be protected at night by suitable signal lights which shall be illuminated from sunset to sunrise. Barricades shall be solid and suitable for the intended purpose, safety and site protection.

All traffic and pedestrian control devices shall be removed within 24 hours of the completion of construction.

If the contractor fails to maintain the Traffic and Pedestrian Control devices in accordance with the plan, the City may correct the deficiency and bill the contractor for labor, material and administrative costs.

9. Liability Insurance and Bonding

Liability Insurance for work within the existing public right of way. The contractor shall procure and maintain, at the contractor's expense, during construction, Workers' Compensation, General Liability, Automobile, Contractual Liability, Property Damage and Bodily Injury insurance. Insurance limits and requirements shall be in accordance with MPWSS.

All construction work within the public right of way or easement will require either the property owner or contractor to provide to the City a Performance Bond. The Bond shall be equal to the value of the work and shall remain in effect for the duration of the project. Contractor's furnishing the City with an annual Bond of $5,000 will not be required to furnish additional bonding, if the $5,000 Bond meets the requirements of these standards.

Bonds maybe in the form of a Surety Bond, Certificate of Deposit, Certified check or an Irrevocable Letter of Credit issued by a company or bank authorized to do business in the state of Montana.

10. Construction Inspection.

Construction, maintenance or repair work within the public right of way shall be inspected and approved by the City before acceptance. It is the owner and/or contractor's responsibility to notify the City of the work requiring inspection at least 24 hours in advance of the time for the City to schedule staff for the Inspection.

11. Stop Work Order.

A written stop work order may be issued by the City, if the construction, maintenance or repair work in progress does not meet the Standards for Design and Construction of the City of Libby. Work may resume only after the deficiencies are corrected and the City authorizes work to resume. If work is covered before inspection by the City, the permit

holder shall promptly uncover uninspected work. All costs of uncovering work shall be borne by the permittee, regardless of the work complying with City Standards.

CHAPTER TWO- DESIGN STANDARDS

1. Requirements.

   The purpose of these standards is to establish the minimum requirements for construction of public facilities and improvements which could impact the existing public facilities of the City of Libby. These standards also apply to any development which may be served by the City's facilities whether annexed or outside the boundaries of the City and requesting service.

   As used within these Standards for design and Construction when the term City or City of Libby is used it shall mean the City Administrator or his designated agent.

   All water, sanitary sewer, storm drainage and roadway systems necessary to provide service to and within a development shall be constructed at the developer's expense and shall be designed by a Professional Engineer currently licensed in the State of Montana. All documents shall bear the seal and signature of the Professional Engineer of record.

   Water, storm drainage and sanitary sewer improvements subject to the design requirements of Montana Department of Health and Environmental Quality (MDEQ) shall be concurrently reviewed by the City of Libby and MDEQ. Construction of the improvements shall not commence until both the City and MDEQ have provided written approval. Submittals shall include all the data, calculations, plans and specifications required by MDEQ and these standards.

   The City may retain a Professional Engineer to review the design submitted for a development. Cost of review will be reimbursed to the City prior to the City approving the plans, specifications and other submittal information.

2. Developments.

   All subdivisions and all improvements to existing lots within the city shall be completed in accordance with these Standards for Design and Construction. The City has adopted Subdivision Standards. All new development and redevelopment shall comply with adopted Subdivision Standards.

   Developments outside the City must annex into the City to receive water, sewer, storm drainage and street connectivity.

   The developer shall construct all roads, water, sewer, storm drainage and other improvements from existing facilities to the development and extend the facilities to the far property line or such location within the development which provides access to future developments. All utilities shall be constructed within public rights of ways or easements to provide free and unobstructed access by the City for operation and maintenance. All extensions for future service shall be placed in easements granted to the public. No

easement which limits future water, sewer storm drainage or street extensions will be accepted. Construction of new improvements shall not commence without easements.

The developer shall obtain and provide to the City all easements and rights of ways necessary to extend utilities and roadways to the far property line or location within the development which provides access to future developments. Easements shall be shown on the design plans. Documents supporting the grant of easements shall be submitted and approved by the City prior to commencing construction.

New utilities for all developments shall be placed underground. As used in these Standards for Design and Construction utilities shall mean water, sanitary sewer, storm drainage, telephone, and electric services. No above ground utility boxes, pedestals, vaults or transformers shall be placed within any roadway or proposed roadway. No above ground or underground utility box, pedestal, transformer or vault shall be placed in a location which is an obstacle to traffic current or future.

3. Water System Design Requirements.

Water system improvements shall be designed, constructed and tested in accordance with the current editions of MDEQ- Circular DEQ 1 – Standards for Water Works, The Montana Public Works Standard Specifications and The Standards for Design and Construction of the City of Libby

In addition the following shall apply to the design of Water System Improvements:

- All water main extensions require a written report prepared by a Professional Engineer currently Licensed in the State of Montana which addresses average day, maximum day , peak hour, fire flows and any other flow needs. The report shall include documentation on pressure tests and calculations supporting conformance to MDEQ requirements.

-Requests for deviations from these standards shall include the justification for the deviation and documentation supporting the basis for the request.

- New valves shall not be located in gutter lines, sidewalks, multiple use paths or within the wheel path of a travel lane of a road.

- Isolation valves shall be installed at each branch of a cross or tee, 5 feet from the fitting or a distance meeting the location requirements. Valves spacing shall not exceed 500 feet, unless approved by the City.

- Fire flow requirements shall conform to Table 2 of the current edition of the Uniform Fire Code or Fire Marshall's recommendation.

- Minimum Pipe size of any water main will be six inch.

- Pipe Materials- AWWA C 900 DR 18, Class 150 pipe conforming to AWWA C-900 Standards.

- Water service lines- Each single family residence will have an individual service. The minimum size will be 1 inch.

- Apartments and condominiums may have one service per structure. The service will be sized based on the Uniform Plumbing Code or factual use data from similar facilities. Sizing maybe based on a 5/8" diameter equivalent service per multifamily residence.

- Service line pipe up to 3 inches shall be polyethylene (PE), 3408, IPS, Class 200 SDR-7 conforming to AWWA C-901.

- Service line pipe four (4) inches and larger shall be DR-18 Class 150 PVC pipe, conforming to AWWA C-900 standards.

- Service saddles shall be Romac Model 306, stainless steel with CC threads for 1 inch to 3 inch. No single or double strap type saddles are allowed for PVC pipe.

- Corporation valves shall be 1 inch Ford Ball Corp. with CC thread inlet and grip joint outlet for IPS PE pipe, model Ford FB 1001-4-G.

- Curb Stops shall be Ford Ball Curb, Minneapolis Pattern with grip joints on the inlet and outlet for IPS PE pipe, model Ford B66-444M-G.

- Curb Boxes shall be Ford, cast iron extension type with Minneapolis Style Tread Pattern, 1 ¼ inch upper section, with a shut off and or lid having a pentagon nut in the plug.

- Tapping sleeves shall be Power Seal Model 3490 AS, stainless steel AWWA and NSF approved. Tapping sleeves shall not be installed closer than 24 inches to any portion of the nearest joint.

- All fittings for underground piping shall be ductile iron fittings, Class 350 SSB fittings conforming to AWWA C-153 Standards. All fittings shall be mechanical joint with retainer glands. Bolts shall be stainless steel.

- Thrust blocking shall be required at all fittings, whether restrained joint fittings or not.

- All ductile iron fittings shall be wrapped in polyethylene encasement. The polyethylene shall be approved for underground use. Fittings shall be wrapped before the thrust block is placed.

- Valves shall be Mueller Resilient Seat wedge Valves Gate Valves conforming to AWWA C-509 Standards.

- Valve Boxes shall be Tyler 6860 Series DD- Screw type, #6 Base, with the cast iron lid cast with the word " Water ".

- Fire hydrants shall be Red Mueller Super Centurion 250 with a 5 ¼" and 2 – 2 ¼ inch connectors, Thread shall be National Standard. Hydrants shall conform to AWWA C 502. Below ground parts of the fire hydrants shall be wrapped in polyethylene encasement.

- Fire service lines are subject to the requirements of National Fire Protection Association 13. Appropriate certifications are required before the lines are accepted by the City Administrator.

- Warning tape shall be placed in all water main, water services and fire hydrant main trenches in public right of way. The warning tape shall placed continuous with no breaks or splices. The tape shall be plastic non- biodegradable with metal core or backing which is detectable by a metal detector. Tape shall be least 18 inches below the finished sub grade of streets or ground surface.

- Toner wire shall be laid with all mains. Toner wire shall be 14 gauge insulated solid copper toner wire approved for underground installation. Splices shall be with heat shrink connections approved for underground installation. Toner wire shall be brought to the surface at all valve boxes and shall be accessible. Toner wire shall be placed 18 inches above the pipe. Prior to acceptance of the water main the continuity of the toner wire shall be verified.

- Water meters shall be Sensus brand for ¾ and 1 inch, SR ll ECR/WP with TR/PL connector and cast iron bottoms. Meters 1 ½ to 4 inch shall be Sensus Omni C2 or T2.

- Radio Transmitters shall be Sensus RadioRead Model 520R Touch Coupled radio transmitter. All meters shall have radio transmitters. Radio signals shall be compatible with the City of Libby system.

-Meter boxes and meter setter for ¾ inch shall be Mueller Thermal Coil Meter Box 250-CS-15-72-F-B-B-L. Meter box and meter setter for 1 inch shall be Mueller Thermal Coil Meter Box 330-CS-18-72-F-B-B-L. Meter boxes of 2" services shall be Mueller. Meter boxes and meter setter for services larger than 2 inch shall be submitted for approval by the City of Libby.

- The City will not allow any connections to the project until the Professional Engineer has Certified Completion, submitted as built drawings and the City accepted the project. No portion of the project maybe used until the entire project is complete.

4. Wastewater Facilities Design Requirements.

Sanitary sewer systems shall be designed, constructed and tested in accordance with the current editions of the Montana Department of Environmental Quality- Circular 2 Design

Standards for Wastewater Facilities, Montana Public Works Standard Specifications and The Standards for design and Construction, Libby, Montana.

The following will apply to the design of sanitary sewer collection systems:

- Minimum flow per residence will be 100 gallons per capita day. If actual flow data is available from similar residential developments those values may be used, at the discretion of the Professional Engineer.

- A peaking factor of 4.0 will be used, unless actual data is available from other resources.

- A sulfide generation analysis may be required for installations with low flows or any installation with long detention times. If the analysis shows levels greater than 0.2 mg/l than non corrosive linings may be required for exposed concrete or exposed metallic surfaces, except stainless steel. No additional coatings are necessary for stainless steel.

- Air tight manhole covers may be required for installations with low flows or long detention times.

- A Design Report prepared by a Professional Engineer will be submitted which addresses at a minimum the capacity existing collection system from the project to the treatment plant. If the project adversely affects the capacity of the existing system, the developer shall propose improvements to correct the impact. All cost of and improvements identified shall completed by the contractor at no cost to the City.

The following shall apply to the design of sewage lift stations:

- A written report will be prepared by a Professional Engineer for the project requiring a lift station or which will contribute flows to an existing lift station.

- The report will at a minimum contain the following:

  - Description of the service area and projected flows
  - Flow calculations with average and peak flows.
  - Impact to the wastewater treatment facility.
  - Description of the proposed or existing facility.
  - Capacity of the recommended or existing pumps.
  - Reserve capacity of the lift station when the proposed project is completed and occupied.

- Pump run times for average and peak flow.

- Recommended pump and pump curve with system curve plotted on the pump curve.

- Recommended force main size and hydraulic capacity of the force main.

- Recommended alarm system with capability to detect power interruption, high water, high temperature in the pump motors and pump failure. The alarm system will include either a telephone dialer or radio telemetry compatible with existing City control system.

Sewage collection systems shall be designed with the following materials:

- Minimum pipe size will be 8 inch for gravity sewers.

- Pipe will be PVC DR 35 or greater as required for the depth of bury.

- Minimum depth measured to the top of the pipe will be 4.0 feet.

- Minimum service size will be 4 inch for a single family residence.

- Multifamily development, commercial or industrial development services will be sized based on the Uniform Plumbing Code.

- Service wye's will be manufactured with jointing to match the sewer main.

- Wye's installed in existing mains will be saddles manufactured for the specific pipe diameter. Saddles will be adhered with stainless steel straps. Saddles will have butyl rubber gaskets at the tap.

- Manholes will be precast meeting ASTM C 478.

- Manhole steps will spaced every 12 inches in the barrel sections, be poly encased ½ deformed steel rod capable of supporting 400 pounds vertical load and have minimum pull out resistance of 1,000 pounds.

- Rings and covers will ductile iron. Covers shall provide a nominal 24 inch opening and be cast with the letters sewer.

Sewer collection systems will be installed with the following materials:

- Warning tape will be buried 24 inches below finished grade.

- Warning tape will be placed continuous with no breaks or splices. The tape shall be plastic non- biodegradable with metal core or backing which is detectable by a metal detector. It

shall have the sewer printed at regular intervals.

- Warning tape for force mains shall have printed at regular intervals, sewer force main. Warning tape shall be placed 18 inches below the subgrade.

- Sewer force mains will have toner wire placed 24 inches above the pipe. The toner wire will be terminated at the ends of the force main or if the force main length exceeds 500 feet, at 500 foot intervals in weather tight boxes on green steel posts. The ends shall be labeled.

- The City will not allow any connections or use until the Professional Engineer has certified completion, submitted as built drawings and the City accepted the project. The City will not accept portions of the work.

5. Storm Water Facilities Design Requirements.

   Storm water facilities shall be designed in accordance with the current editions of the Montana Department of Environmental Quality Circular 8- Montana Standards for Subdivision Drainage, Montana Public works Standard Specifications and the Standards for Design and Construction of the City of Libby, Montana.

   - All drainage facilities will be designed by a Professional engineer.

   - A Storm Drainage Plan is required for all new development and any redevelopment of existing sites. The Storm Drainage Plan must be prepared by a Professional engineer.

   - The drainage plan must include, to the extent possible, low impact development practices, which infiltrate, evapo transpiration or capture for reuse the runoff.

   - A developer must extend the new storm drain system if the development is within 500 feet of any existing drainage facility or storm drain pipe.

   - Storm sewer piping shall be designed for the 10 year 2 hour event.

   - Storm sewers shall provide a straight alignment between manholes.

   - Storm sewer piping shall be designed with a minimum of 3 feet per second velocity at design storm.

   - Storm sewers shall be constructed of reinforced concrete pipe, or PVC pipe, all with water tight joints.

   - All pipe greater than 36 inches in diameter shall be reinforced concrete pipe.

   - Inlets and manholes on pipes storm sewer systems shall have 9 inch sumps for sediment collection.

- Storm water facilities located within developments shall be designed to remove solids, silts, oils, grease, and other pollutants.

- Drainage swales used to divert runoff must be vegetated immediately after constructed.

- Disturbance of more than an acre will require a Montana Department of Environmental Quality Construction Storm Water Permit and plan documenting adherence to best management practices. Proof of permitting shall be submitted to the City before construction commences.

- Improvements constructed on public right of way or within easements granted to the public will not be accepted or maintained by the City until the Professional Engineer has certified substantial completion, submitted as built drawings and the City has accepted the project.

-The City will not accept portion portions of a project.

6. Streets, Paths and Walkways.

Streets, paths and walkways shall be designed by a Professional Engineer, unless otherwise approved by the City Administrator. The design and construction shall be in accordance with the current edition of the Standards for design and Construction of the City of Libby, the Montana Public works Standard Specifications and the Manual of Uniform Traffic Control Devices. All designs must be approved by the City before construction begins.

- A traffic analysis is required for any development contributing more than 300 vehicle trips per day. The analysis must per prepared by a Professional Engineer experienced in the preparation of Transportation Impact Statements. The report must be prepared in accordance with Montana Department of Transportation guidelines.

- All dead end streets must end in an approved cul de sac. Cul de sacs must be approved by the Fire Chief and City. Each cul de sac must end in a turn around with a minimum radius of 45 feet.

- Hammerheads maybe substituted for cul de sacs for developments of less than five lots or tracts. The dimensions of the hammer head shall be approved by the Fire Marshall.

- Horizontal alignments of all new streets must provide adequate sight distances. Local streets shall be designed for 25 mph speeds, Collectors and arterial shall be designed for 35 mph speeds. Designs shall be in accordance with the latest edition of AASHTO, A Policy on Geometric design of Highways and Streets.

- Right of ways and street widths must conform to Table One below:

TABLE 1

ROAD DESIGN STANDARDS*

STANDARD	ARTERIAL	COLLECTOR	LOCAL
Right of Way	80 feet	60 feet	60 feet
Pavement Width	40 feet*	34 feet	28 feet
Maximum Grade	8 %	8 %	8 %
Cul de Sac			
Back curb radius			47 feet
Right of way radius			58 feet
Maximum Length			600 feet

* Final design standards are subject to City and Fire Chief approval.

- Street intersections must conform to the following:

TABLE 2

STREET GEOMETRIC STANDARDS*

- All streets shall intersect at 90^0, variances based on topography will be considered on a case be by case basis. Intersection angles cannot be less than 75^0.
- No more than two streets may intersect at one intersection.
- Intersections must be at least 150 feet apart.
- Minimum back of curb radius is 20 feet at street intersections.
- Minimum sight distance for vertical curves must be 150 feet.

- All new streets shall have curb and gutter on both sides, unless other equivalent improvements are proposed and approved by the City.

- All new streets and any street being reconstructed will have a five wide sidewalk on both sides. Placing a sidewalk on one side will be considered based on topography and expected use.

- Boulevards will be required between sidewalks and the curbs. The minimum width of the boulevard will be 5 feet, unless topography or other conditions imposed obstacles to construction.

- A multi use path must have a minimum width of 8 feet.

- A multi use path maybe surfaced with either asphalt, 3 inches, or concrete, 4

inches and suitable base.

- A multi use path must be designed by a Professional Engineer.

- Traffic Control Signs and Street Names Signs must be in accordance with the Manual of Uniform Traffic Control Devices.

- New street names must be approved by the City.

CHAPTER THREE- CONSTRUCTION STANDARDS

1. Project Requirements.

   Contractor's installing water, sanitary sewer, storm drainage, streets, sidewalks or paths or any other public improvement shall be subject to the following requirements:

   - Contractor's working within existing or proposed public rights of ways or easements must be registered with the Montana Department of Labor and Industry, Employment Relations Division.

   - Any contractor working in existing or proposed public rights of ways or easements must provide copies of General Liability Insurance and Performance and Material and Performance Bonds to the City before commencing work.

   - Insurance limits for all coverage must be equal to or greater than those listed in the Montana Public Works Standard Specifications.

   - Prior to any construction activity on a project a preconstruction conference shall be held. The City, the Project Engineer, the Owner and the Contractor's project manager and on site superintendent shall attend. Items which may be discussed are:

   - Construction schedule
   - Shop drawings submittals
   - Existing utilities
   - Work hours
   - Dust control
   - Noise
   - Quality Control
   - Materials Testing
   - Records
   - As builts Drawings
   - Construction meetings
   - Pre final inspection
   - Final Inspection
   - Certifications
   - Final payment
   - Final acceptance
   - Warranty inspections
   - Warranty responsibilities
   - Maintenance Bond
   - Other items.

   - All items of work require shop drawings. Copies of the shop drawings approved by the Professional Engineer, shall be provided to the City as part of the final certifications and

record drawings.

2. Construction Standards.

   All water, sanitary sewer, storm drainage, streets, sidewalks and paths or any other public improvement constructed in public right of way or easement shall be constructed, inspected and tested in accordance with the current Montana Public Works Standard Specifications and the Standards for Design and Construction of the City of Libby and other standards referenced within this document. In the event of conflict between the standards listed. The Standards for design and Construction for the City of Libby shall have primacy.

3. Construction Inspection, Testing and Quality Control.

   A Professional Engineer or the Professional Engineer's designated representative shall provide construction inspection and the testing required by the standards included by reference, Montana Public Works Standard Specifications and these standards.

   The following quality control procedures will apply to all utility, street, sidewalk and path projects. The City reserves the right to conduct independent quality assurance testing at the City's expense during any phase of construction of a project. Testing by the City shall be considered the same as testing by the Professional Engineer. If the tests fail the contractor shall take action to correct the defective work tested and provide retesting at no cost to the City.

   The following is a summary of the minimum observations and testing required for conformance to the Standards of Design and Construction of the City of Libby:

   a. All water main valves , fittings, fire hydrants, sewer manholes, wet wells and water and sewer main crossings shall be inspected and approved by the Professional Engineer or the Engineer's representative, prior to backfilling.

   b. A Professional Engineer or the Engineer's representative shall be present for all tests required for any public improvement. A written record of all tests shall be submitted to the City as each occurs.

   c. A Professional Engineer or Engineer's representative shall provide the City of Libby with copies of all daily inspection reports with the date, activity, progress, problems and testing noted. Reports shall be submitted on a weekly basis.

   The following minimum compaction testing procedures shall apply to all utility and roadway construction projects. An independent accredited testing laboratory shall be retained to provide the following minimum testing. Test locations shall be random and cover the entire section of the tested element. The City may require additional tests. For projects of less than 300 lineal feet of improvement a minimum of one test per lift or paving section component shall be required as summarized below:

a. Utility trenches and other underground structures. Testing shall be random and spaced along the length.

- Utility trenches shall have a test on the bedding and each lift to the subgrade with a random distribution. At least one test shall be at the trench interface with the native material.
- Horizontal frequency shall be the equivalent of one set of tests per 300 feet of installation. Service lines shall have one set per three services.
- Manholes and other structures shall have one test per lift per structure with at least one test within 8 inches of the structure and trench interface.

b. Street sub grade:

- Sub base shall have one test per lift per 300 lineal feet of street.
- Base shall be tested one test per 300 lineal feet of street.

c. Asphalt testing shall include field densities, marshall densities, percent oil and gradations for each 600 feet of length.

4. Record Drawings and Project Acceptance.

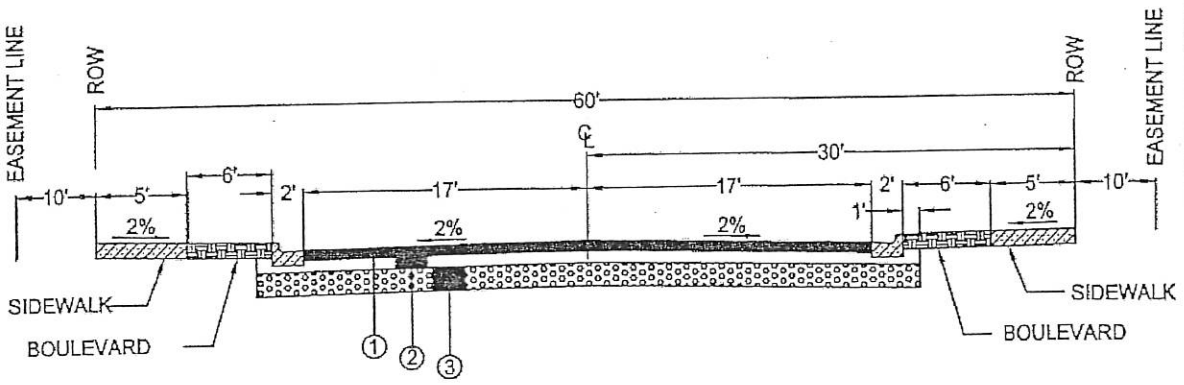
Upon project completion and before final acceptance, a Professional Engineer shall certify to the City the construction of the water, sewer, street and storm utilities were constructed in substantial conformance with the approved construction documents. The Professional Engineer shall submit two sets of full-sized record drawings and one DWG format. The submittal shall also include one copy of the test results. The City will not accept the project and provide maintenance until the record drawings and test results have been accepted by the City. The two year maintenance guarantee period will begin on the date of the Cities acceptance.

5. Two Year Guarantee Inspection.

The Project Engineer or the engineers designated representative shall conduct a two year guarantee inspection to be attended by representative of the City, owner and Engineer. The inspection shall take place not less the 90 days prior to the expiration of the Two Year maintenance and guarantee.

The Project Engineer or the engineers designated representative shall notify the contractor of any work found not meeting the approved construction documents. The contractor shall have 30 calendar days to correct the noted deficiencies. If the deficiencies are not corrected within 30 days the City shall make the repairs and bill the contractor for the actual cost plus damages of 20% of the cost.

CHAPTER IV
STANDARD
DRAWINGS



① 4" ASPHALT - SHALL BE TYPE B (ASPHALT CONCRETE PAVEMENT SURFACE COURSE TYPE B SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 02510 PART 1 THROUGH PART 3 OF THE 2006 ADDENDUM TO THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, FIFTH EDITION, MARCH 2003. SEE DS-4 ASPHALT SURFACING, REGARDING PAVEMENT AND MATERIAL TESTING REQUIREMENTS.

② 6" CRUSHED GRAVEL BASE, -3/4" DIAMETER@95% DENSITY (± 3% OPTIMUM MOISTURE) PER AASHTO T-99

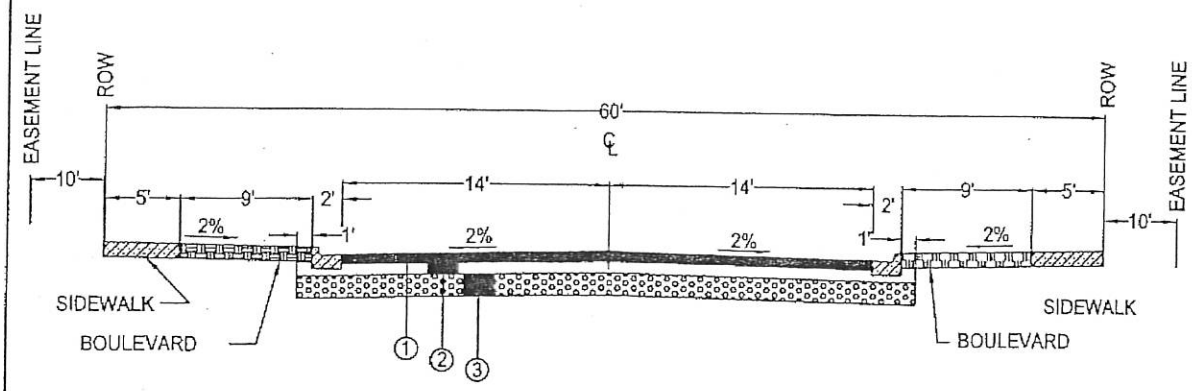
③ 15" SELECT SUB-BASE@95% DENSITY (± 3% OPTIMUM MOISTURE) PER AASHTO T-991.

1. THICKNESSES OF ASPHALT, CRUSHED GRAVEL AND SUB-BASE SHALL BE AS SHOWN, UNLESS AN ALTERNATE DESIGN IS APPROVED. THE FINAL STREET DESIGN SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO START OF CONSTRUCTION.
2. THE WIDTH OF THE RIGHT-OF-WAY MAY BE INCREASED DUE TO UTILITIES, OR OTHER REQUIREMENTS.
3. THE MAXIMUM GRADE SHALL BE 8%.
4. ON STREET PARKING GOVERNED BY CITY

UTILITY NOTE:

ALL NEW UTILITIES SHALL BE PLACED UNDERGROUND. EXCEPT FOR SEWER AND WATER, UNDERGROUND UTILITIES, IF PLACED IN THE STREET RIGHT-OF-WAY OR EASEMENT, SHALL BE LOCATED BETWEEN THE BACK OF THE SIDEWALK AND THE EASEMENT LINE. NO UNDERGROUND UTILITIES SHALL BE PLACED IN THE BOULEVARD BETWEEN THE BACK OF CURB AND SIDEWALK.

CONSTRUCTION STANDARDS CITY OF LIBBY	COLLECTOR STREET	



① 4" ASPHALT - SHALL BE TYPE B (ASPHALT CONCRETE PAVEMENT SURFACE COURSE TYPE B SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 02510 PART 1 THROUGH PART 3 OF THE 2006 ADDENDUM TO THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, FIFTH EDITION, MARCH 2003.SEE DS-4 ASPHALT SURFACING, REGARDING PAVEMENT AND MATERIAL TESTING REQUIREMENTS.

② 6" CRUSHED GRAVEL BASE, -3/4" DIAMETER@95% DENSITY (± 3% OPTIMUM MOISTURE) PER AASHTO T-99.

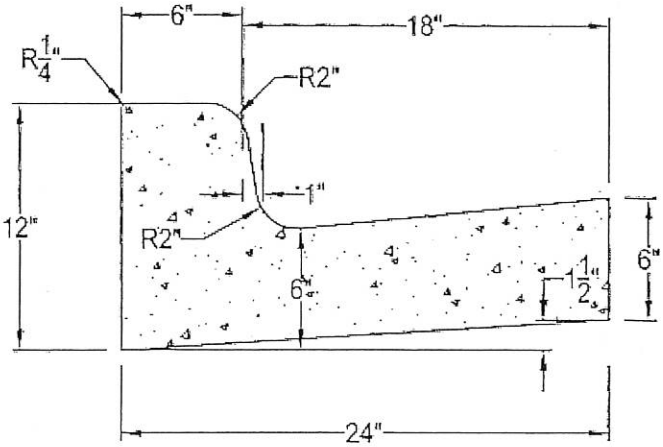
③ 9" SELECT SUB-BASE@95% DENSITY (± 3% OPTIMUM MOISTURE) PER AASHTO T-99

1. THICKNESSES OF ASPHALT, CRUSHED GRAVEL AND SUB-BASE SHALL BE AS SHOWN, UNLESS AN ALTERNATE DESIGN IS APPROVED. THE FINAL STREET DESIGN SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO START OF CONSTRUCTION.
2. THE WIDTH OF THE RIGHT-OF-WAY MAY BE INCREASED DUE TO UTILITIES, OR OTHER REQUIREMENTS.
3. THE MAXIMUM GRADE SHALL BE 8%.
4. ON STREET PARKING GOVERNED BY

UTILITY NOTE:

ALL NEW UTILITIES SHALL BE PLACED UNDERGROUND. EXCEPT FOR SEWER AND WATER, UNDERGROUND UTILITIES, IF PLACED IN THE STREET RIGHT-OF-WAY OR EASEMENT, SHALL BE LOCATED BETWEEN THE BACK OF THE SIDEWALK AND THE EASEMENT LINE. NO UNDERGROUND UTILITIES SHALL BE PLACED IN THE BOULEVARD BETWEEN THE BACK OF CURB AND SIDEWALK.

CONSTRUCTION STANDARDS CITY OF LIBBY	LOCAL STREET	



1. 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AT EACH POINT OF CURVATURE AND POINT OF TANGENCY.

2. CONTRACTION JOINTS SHALL BE PLACED AT EVERY 15' OF CURB LENGTH AND SHALL HAVE A MINIMUM DEPTH OF 3/4" AND A MINIMUM WIDTH OF 1/8". CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR THE SPECIFIED MINIMUM DEPTH.

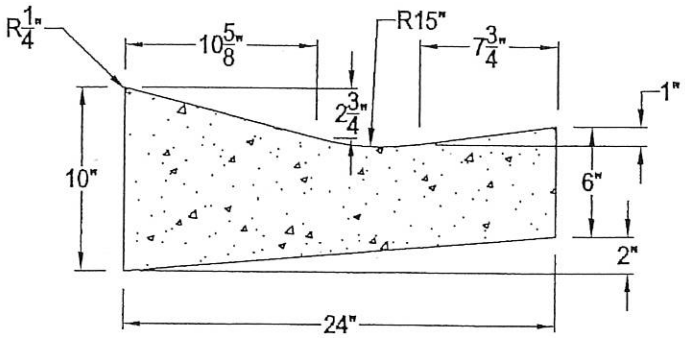
3. EXPOSED EDGES SHALL BE FINISHED TO A RADIUS OF 1/4".

4. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6%$\pm$ 1 1/2% AIR ENTRAINMENT, AND MAXIMUM SLUMP OF 4".

5. INDIVIDUAL CONTRACTORS FORMS MAY VARY SLIGHTLY FROM THIS PATTERN. PATTERNS DIFFERING MATERIALLY FROM THE ABOVE DIMENSIONS SHALL BE SUBMITTED TO THE CITY FOR REVIEW.

6. FOUR INCHES OF CRUSHED GRAVEL BASE MATERIAL, -3/4" DIAMETER IS REQUIRED FOR THE CURB AND GUTTER FOUNDATION. THE BASE MATERIAL SHALL BE COMPACTED TO 95% DENSITY ($\pm$ 3% OPTIMUM MOISTURE) PER AASHTO T-99.

CONSTRUCTION STANDARDS CITY OF LIBBY	CURB AND GUTTER	



1. 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AT EACH POINT OF CURVATURE AND POINT OF TANGENCY.

2. CONTRACTION JOINTS SHALL BE PLACED AT EVERY 15' OF CURB LENGTH AND SHALL HAVE A MINIMUM DEPTH OF 3/4" AND A MINIMUM WIDTH OF 1/8". CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR THE SPECIFIED MINIMUM DEPTH.

3. EXPOSED EDGES SHALL BE FINISHED TO A RADIUS OF 1/4".

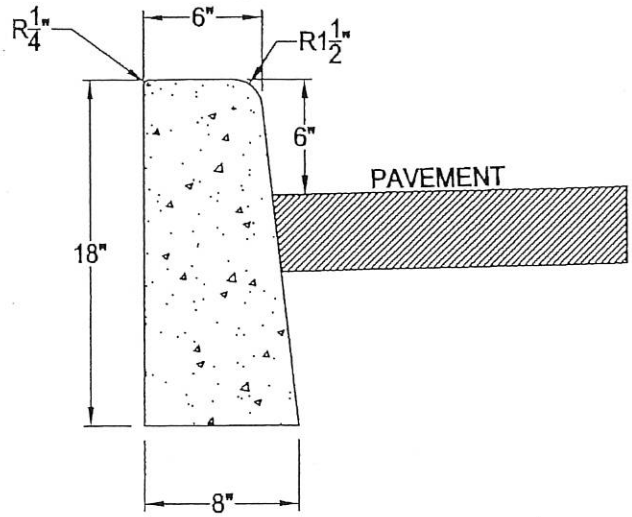
4. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6%$\pm$ 1 1/2% AIR ENTRAINMENT, AND MAXIMUM SLUMP OF 4".

5. INDIVIDUAL CONTRACTORS FORMS MAY VARY SLIGHTLY FROM THIS PATTERN. PATTERNS DIFFERING MATERIALLY FROM THE ABOVE DIMENSIONS SHALL BE SUBMITTED TO THE CITY FOR REVIEW.

6. FOUR INCHES OF CRUSHED GRAVEL BASE MATERIAL, -3/4" DIAMETER IS REQUIRED FOR THE CURB AND GUTTER FOUNDATION. THE BASE MATERIAL SHALL BE COMPACTED TO 95% DENSITY ($\pm$ 3% OPTIMUM MOISTURE) PER AASHTO T-99.

7. THIS CURB DOES NOT MEET HANDICAPPED ACCESS REQUIREMENTS AND SHALL NOT BE USED FOR ACCESS RAMPS.

CONSTRUCTION STANDARDS CITY OF LIBBY	DRIVE OVER CURB & GUTTER	



1. 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AT EACH POINT OF CURVATURE AND POINT OF TANGENCY.

2. CONTRACTION JOINTS SHALL BE PLACED AT EVERY 15' OF CURB LENGTH AND SHALL HAVE A MINIMUM DEPTH OF 3/4" AND A MINIMUM WIDTH OF 1/8". CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR THE SPECIFIED MINIMUM DEPTH.

3. VISIBLE EDGES SHALL BE FINISHED TO A RADIUS OF 1/4", UNLESS OTHERWISE NOTED.

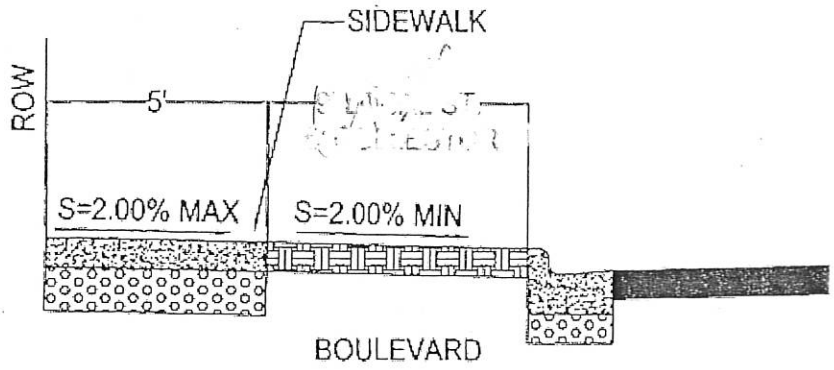
4. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6%$\pm$ 1 1/2% AIR ENTRAINMENT, AND MAXIMUM SLUMP OF 4".

5. INDIVIDUAL CONTRACTORS FORMS MAY VARY SLIGHTLY FROM THIS PATTERN. PATTERNS DIFFERING MATERIALLY FROM THE ABOVE DIMENSIONS SHALL BE SUBMITTED TO THE CITY FOR REVIEW.

6. FOUR INCHES OF CRUSHED GRAVEL BASE MATERIAL, -3/4" DIAMETER IS REQUIRED FOR THE CURB FOUNDATION. THE BASE MATERIAL SHALL BE COMPACTED TO 95% DENSITY ($\pm$ 3% OPTIMUM MOISTURE) PER AASHTO T-99.

7. ONLY ALLOWED WITH SPECIFIC APPROVAL OF CITY

CONSTRUCTION STANDARDS CITY OF LIBBY	STRAIGHT CURB	



1. PRE-FORMED 1/2" EXPANSION JOINT MATERIAL MEETING THE REQUIREMENTS OF AASHTO M-213 SHALL BE PLACED AT 45-FOOT INTERVALS AND AT ALL COLD JOINTS.

2. CONTRACTION JOINTS SHALL BE SPACED THE APPROXIMATE SAME DIMENSION AS THE WIDTH, BUT NOT TO EXCEED SIX FEET. CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. A TOOL SHALL BE USED WHICH WILL LEAVE THE EDGES ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR THE SPECIFIED MINIMUM DEPTH. CONTRACTION JOINTS SHALL BE A MINIMUM OF 1/4 OF THE TOTAL DEPTH OF THE CONCRETE.

3. ALL VISIBLE EDGES AND JOINTS SHALL BE ROUNDED WITH AN EDGING TOOL WITH A MINIMUM 1/4" RADIUS.

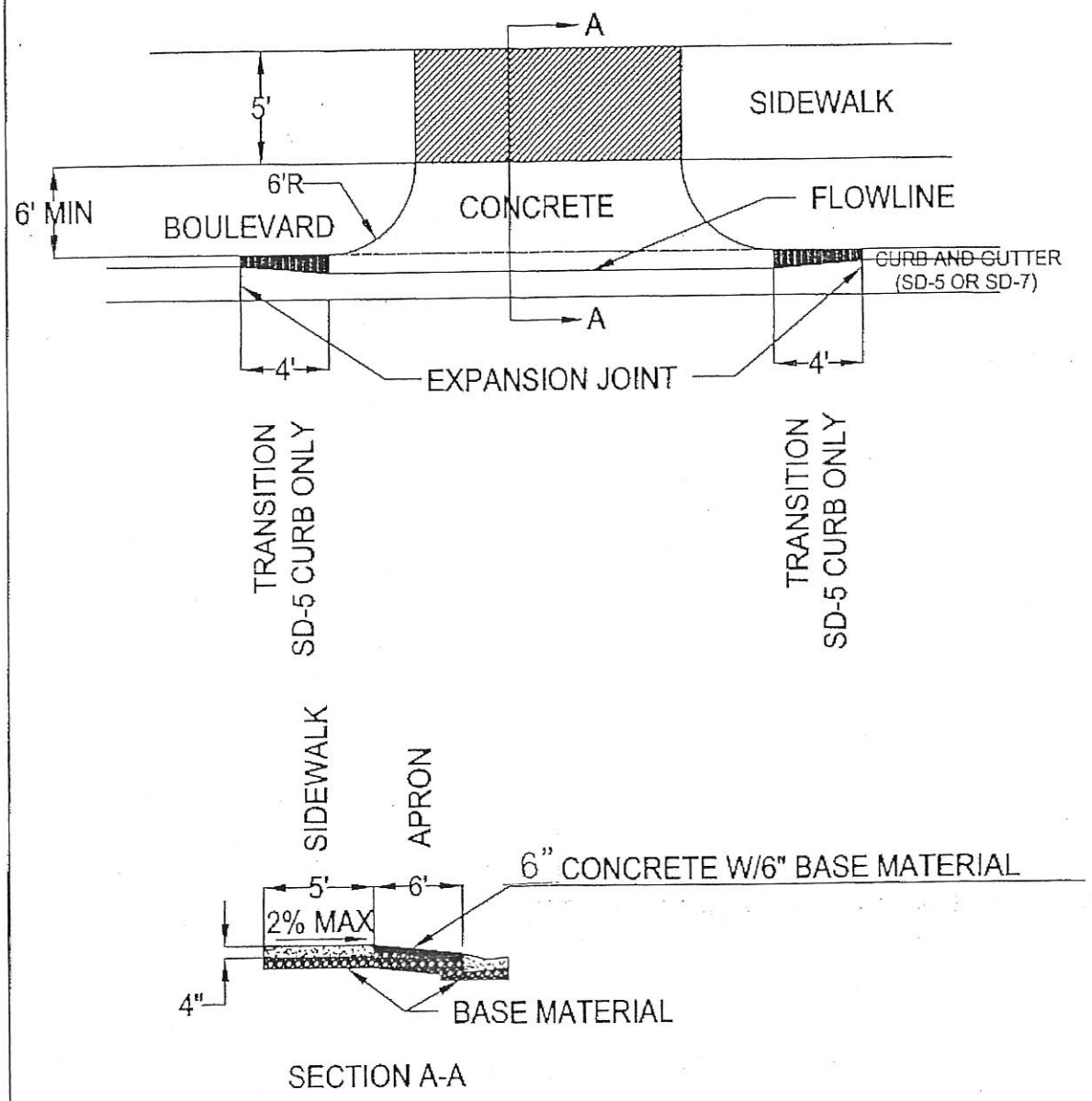
4. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6%± 1 1/2% AIR ENTRAINMENT, AND MAXIMUM SLUMP OF 4".

5. SIX INCHES OF CRUSHED GRAVEL BASE MATERIAL, -3/4" DIAMETER IS REQUIRED FOR THE SIDEWALK FOUNDATION. THE BASE MATERIAL SHALL BE COMPACTED TO 95% DENSITY (± 3% OPTIMUM MOISTURE) PER AASHTO T-99.

6. SIDEWALK THICKNESSES:
   RESIDENTIAL: 4"
   COMMERCIAL: 6"

   All sidewalks shall #4 bars 12" on center each direction.

CONSTRUCTION STANDARDS CITY OF LIBBY	SIDEWALK	

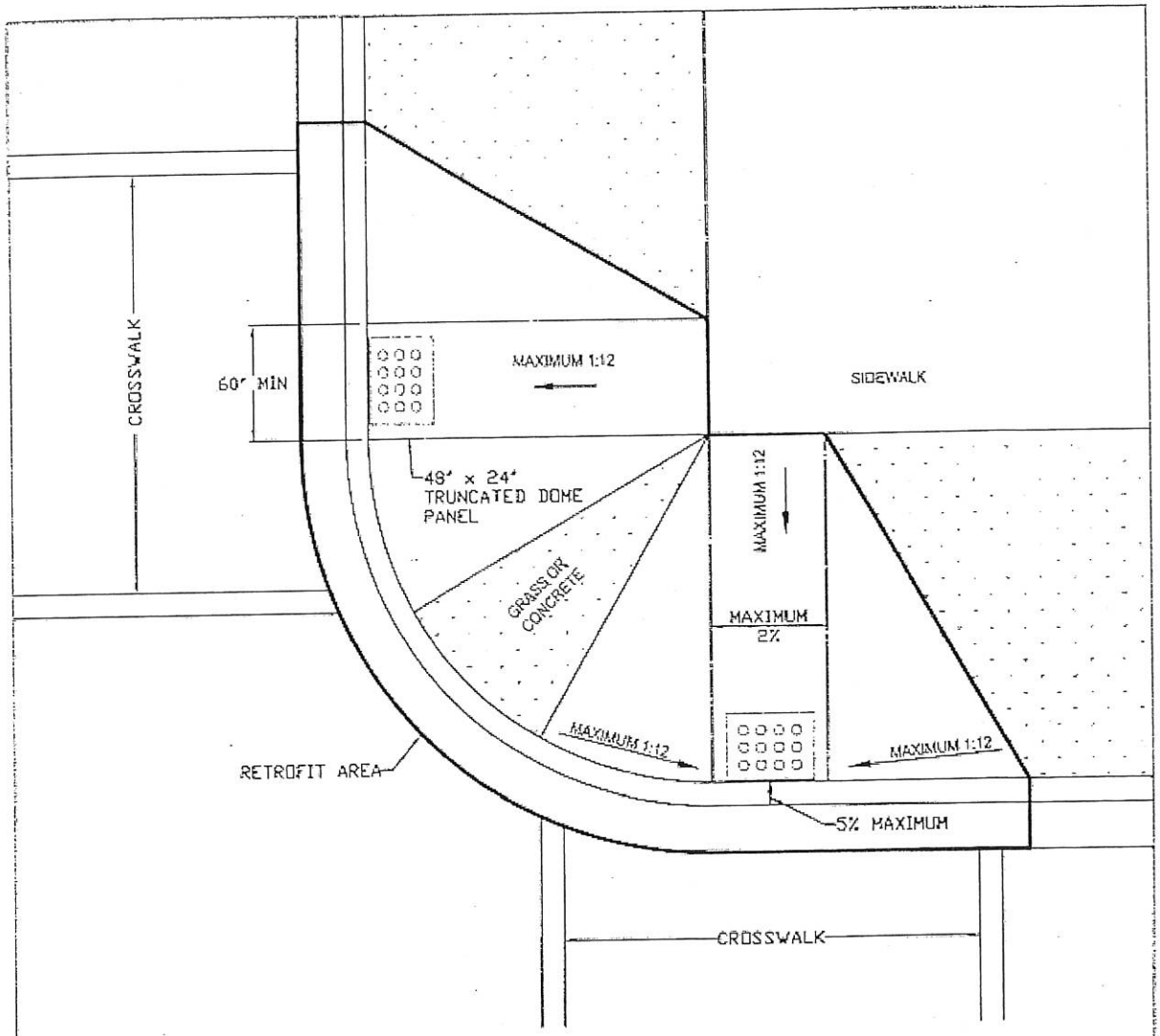


SECTION A-A

BASE MATERIAL SHALL BE CRUSHED GRAVEL, -3/4" DIAMETER COMPACTED TO 95% DENSITY (+ 3% OPTIMUM MOISTURE) PER AASHTO T-99

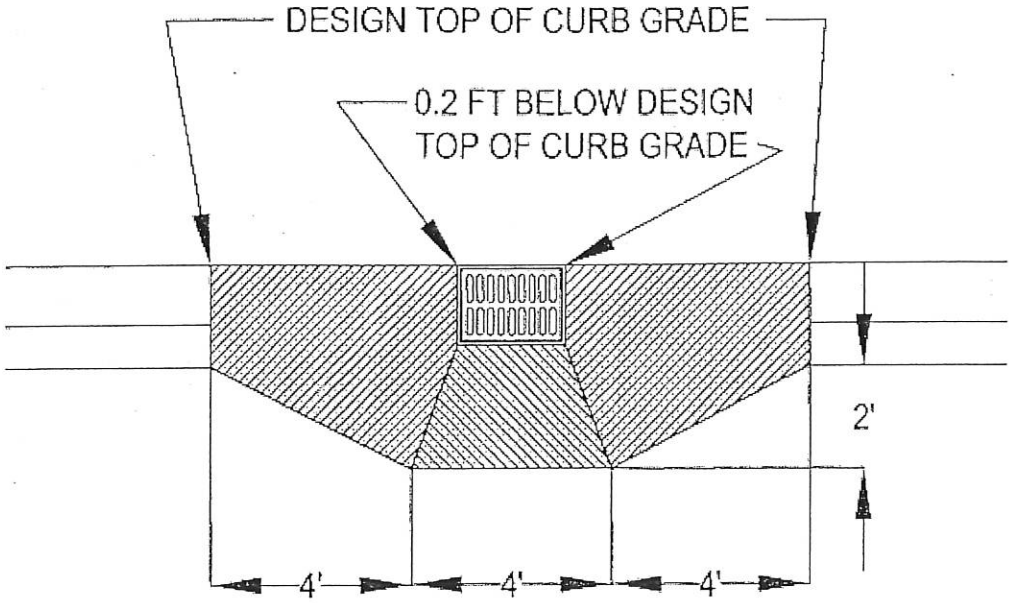
CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6% ± 1 1/2% AIR ENTRANEMENT, AND MAXIMUM SLUMP OF 4"

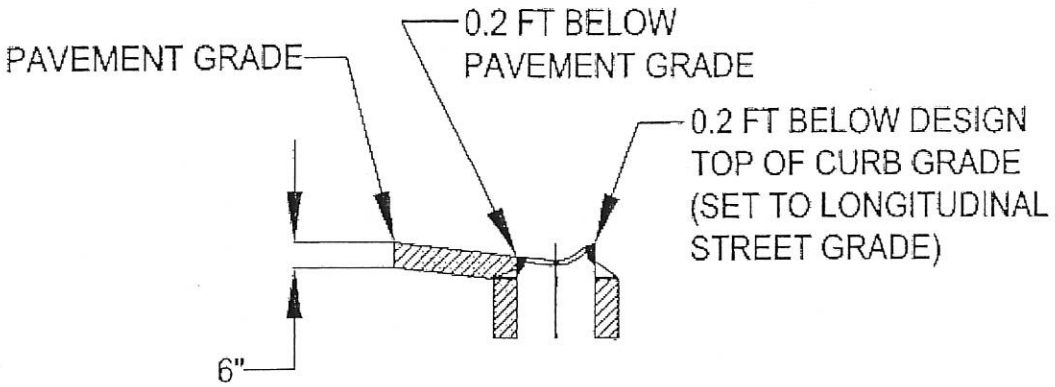
CONSTRUCTION STANDARDS CITY OF LIBBY	DRIVEWAY DETAIL FOR CURB & GUTTER	



1. PEDESTRIAN RAMPS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT/ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
2. IN INSTANCES WHEN IT WILL BE TECHNICALLY INFEASIBLE FOR A PEDESTRIAN RAMP TO BE CONSTRUCTED TO FULL AND STRICT COMPLIANCE WITH ADA STANDARDS, THE PEDESTRIAN RAMP MUST BE INSTALLED TO PROVIDE ACCESSIBILITY TO THE MAXIMUM EXTENT FEASIBLE. ALTERNATIVE DESIGNS SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.

CONSTRUCTION STANDARDS CITY OF LIBBY	RETROFIT PEDESTRIAN RAMP	S[illegible]





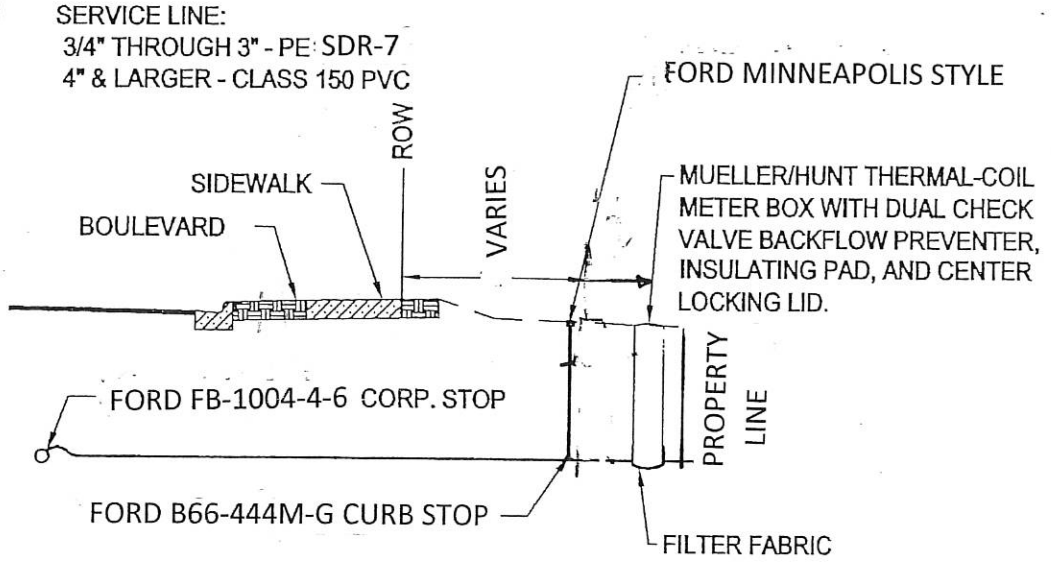
1. REINFORCE CONCRETE WITH 10/10 6 X 6 WWF SUPPORTED WITH #3 REINFORCING BARS AT 48" ON CENTER EACH WAY ON 3" HIGH CHAIRS

2. CONSTRUCT PRIOR TO PAVING.

CONSTRUCTION STANDARDS CITY OF LIBBY	CONCRETE CURB INLET APRON	

TAPPING SADDLE:
3/4" THROUGH - 3"- ROMAC MODEL 306
3" & LARGER - ROMAC SSTIII STAINLESS STEEL TAPPING SLEEVE

SERVICE LINE:
3/4" THROUGH 3" - PE SDR-7
4" & LARGER - CLASS 150 PVC



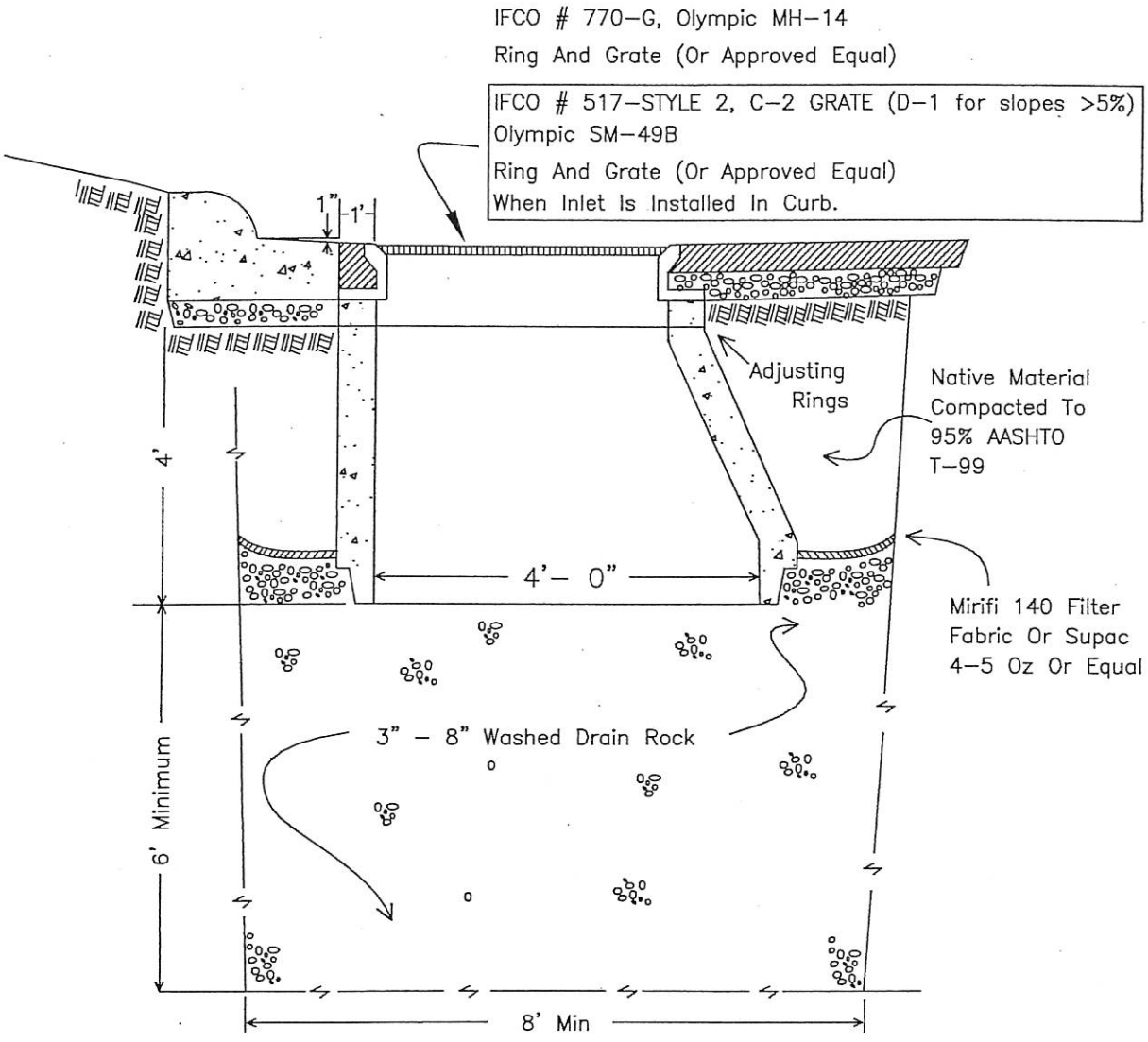
SET CURB BOX AND METER BOX AT FINISHED GRADE

METER BOX INSULATION PADS SHALL BE PROVIDED AS FOLLOWS:
3/4" METER - 15" INSULATION PAD
1" METER - 18" INSULATION PAD

NOTE: METER BOXES ARE REQUIRED

CONSTRUCTION STANDARDS CITY OF LIBBY	WATER SERVICE LINE	

Elevation To Be Set By The Engineer



NOTE:

1. Sumps shall be used in areas of natural permeable subsoil.
2. Due To Provisions In The Intermodal Surface Transportation Act, Vendor Must Authenticate U.S. Origin of Castings In Projects Involving Federal Funds.
3. The 8' sump, Standard Drawing 302, shall be used in all Public Right of Ways The 4' sump should only be used in situations where the 4' barrel cannot be installed due to conflicts with utilities.

Permit No. _____

City of Libby
Street Opening Permit

Street Opening Fee: _____

** **Note to contractor:** If the street opening is returned to its original condition including blacktop, there will be no additional charge. If the city has to make repairs to the street, a charge of $5.00 per square foot based on the size of the opening will be charged.*

Owner: _____ **Date:** _____

Address: _____

Location: _____

_____

Description: _____

_____

Comments: _____

_____

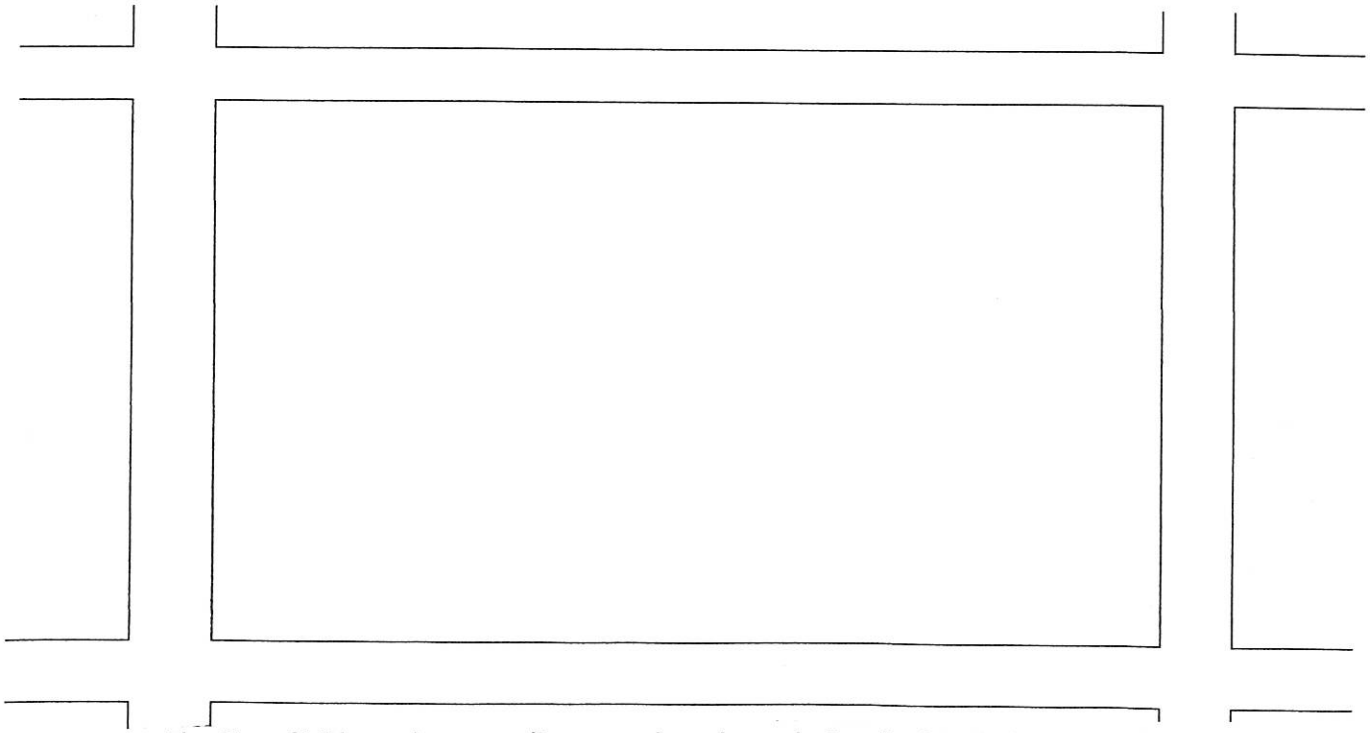
_____

_____

Owner or **Contractor:**

_____

Inspector



- The City of Libby and surrounding areas have been declared a SUPER FUND SITE for asbestos and contamination of the groundwater. Individuals and Contractors are advised to contact 406-291-5335, before beginning any work .

Permit No. _____

City of Libby
Application & Permit for Water Service

Plant Investment Fee: _____ Service Line Fee: _____

Owner: _____ Date: _____

Address: _____

Connection Location: _____

_____

Kind of Pipe: _____ Size of Pipe: _____

Depth at Property Line: _____ No. of Units: _____

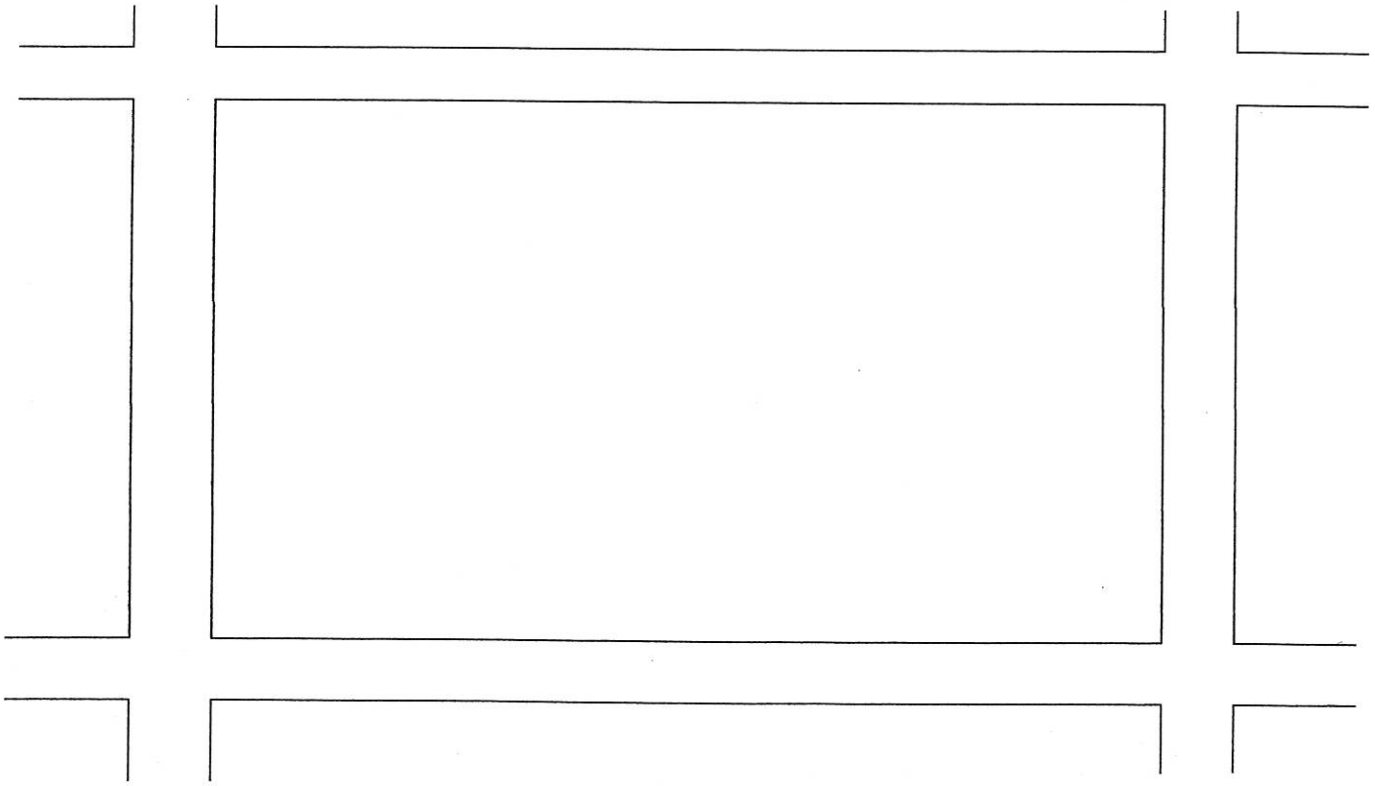
Comments: _____

_____

_____

_____
Owner or Authorized Plumber

_____
Inspector



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CITY OF LIBBY
P.O. Box 1428 / 952 E. Spruce St.
Libby, MT 59923

IN AGREEMENT: A deposit of **$150** is required for new water service. The deposit will be placed in a non-interest bearing account. If the customer is the property owner, the deposit will be refunded to the customer after 1 year of credible service or at such time as they move and all charges are cleared on the account. If the customer is renting the property the deposit will be refunded, provided service has been kept credible, at the time the property is vacated and all charges are cleared from the account. The undersigned agrees to pay for all the utilities in accordance with City of Libby policies. Past due charges for service are due within 20 days of the due date. A past due notice will be mailed after the 26th of the month at which time $10 will be added to the account. The past-due balance must be paid in full and a disconnect /reconnection fee of $50 must be paid before water service will be reinstated. Interest of 1.5% is charged on any unpaid balance after the due date. Past due water & sewer bills will be put into a tax lien.

NAME: _____
FIRST MIDDLE LAST

PHYSICAL ADDRESS: _____

MAILING ADDRESS: _____

HOME PHONE: _____ **WORK PHONE:** _____

SOCIAL SECURITY #: _____ **DOB:** _____

EMPLOYER: _____ CITY _____ ST/ZIP _____

EMPLOYER'S PHONE: _____

LANDLORD'S NAME: _____

MAILING ADDRESS: _____ **PHONE:** _____

NEAREST RELATIVE NOT LIVING WITH YOU: _____
NAME

_____
ADDRESS CITY/STATE/ZIP PHONE NO.

THE PROPERTY OWNER(S) OF THE PREMISES STATED ABOVE ARE RESPONSIBLE FOR PAYMENT OF THE WATER AND SEWER USE AND DEBT SERVICE CHARGES FOR THE ABOVE-SAID PREMISES. CITY OF LIBBY ORD. #1343, RULE 6, PARAGRAPH 6. I (WE) GIVE PERMISSION TO HAVE THE WATER AND SEWER BILL FOR THE ABOVE PREMISES SENT TO THE ABOVE RENTER AT THE MAILING ADDRESS LISTED. IN THE EVENT OF NON-PAYMENT OF CHARGES FOR WATER SERVICE AND BENEFITS TO ANY PREMISES, THE GOVERNING BODY MAY DIRECT THE SUPPLY OF WATER TO SUCH PREMISES TO BE DISCONTINUED UNTIL SUCH CHARGES ARE PAID.

The effective date for this change is: _____ **in / out**

Signed: _____ **Date:** _____

Beginning/Ending Read: _____
Old Customer Name: _____
ENTERED: _____

Permit No. _____

City of Libby
Application & Permit for Sewer Service

Plant Investment Fee: _____ Service Line Fee: _____

Owner: _____ Date: _____

Address: _____

Connection Location: _____

_____

Kind of Pipe: _____ Size of Pipe: _____

Depth at Property Line: _____ No. of Units: _____

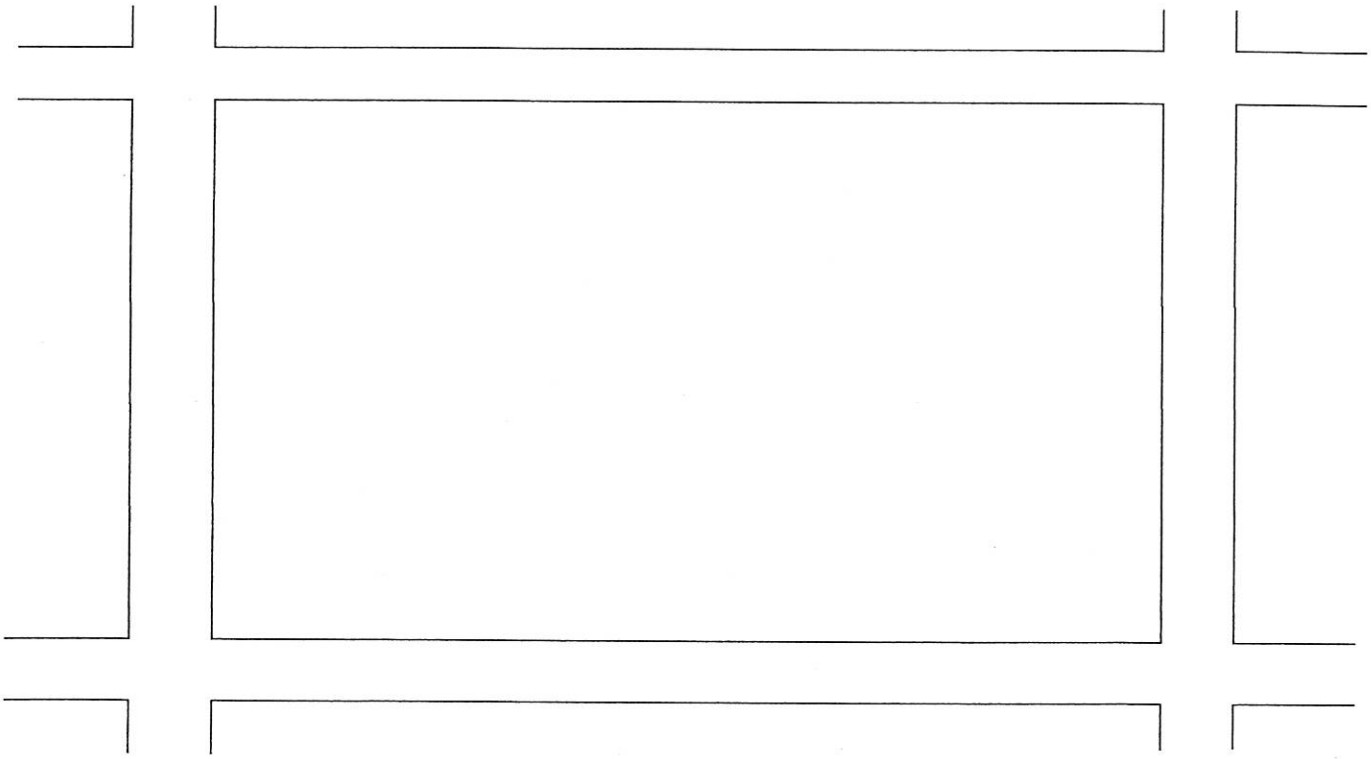
Comments: _____

_____

_____

_____
Owner or Authorized Plumber

_____
Inspector



- The City of Libby and surrounding areas have been declared a SUPER FUND SITE for asbestos and contamination of the groundwater. Individuals and Contractors are advised to contact 406-291-5335, before beginning any work.

TREE REMOVAL PERMIT

Name of applicant_____

Address_____

Telephone_____

Best time to contact_____

Reason to remove tree(s):

Species of tree(s) to remove

Ordinance No. 1472 assigns to the City Manager with the assistance of the Tree Board the authority to regulate public trees within the City of Libby, to provide for their planting, protection, maintenance and removal. Section 5.06 of said ordinance reads: No person or property owner is to remove a public tree from the boulevard for the purpose of construction, or for any other reason, without first obtaining a permit from the City. Public trees removed by the property owner must be replaced with appropriate species tree and the property owner shall bear the cost of the removal and replacement of all public trees removed.....The person removing city trees shall provide evidence of public liability insurance in an amount determined to be appropriate by the City Manager.

I have read and understand the above set forth conditions.

_____

Signature of applicant date

Permission is hereby granted to:

Name:_____

To remove the following tree(s) located on city property.

_____

Authorized Representative of the City of Libby

- **The City of Libby and surrounding areas have been declared a SUPER FUND SITE for asbestos and contamination of the groundwater. Individuals and Contractors are advised to contact 406-291-5335, before beginning any work .**