

BUILDING PERMIT APPLICATION PACKET



Milford City
PO Box 69
405 South Main
Milford, UT 84751
(435) 387-2711 Fax (435) 387-2748



Dear Applicant,

This application packet has been developed as a means to assist you, the applicant, in understanding the application procedure and requirements when applying for a **Building Permit**. This packet includes all the necessary background information you will need to prepare and file a complete submittal that will allow your application to be processed and reviewed in the timeliest manner possible. The following materials have been included in this application packet for your convenience:

- Building Permit Application Form
- Owner – Builder Form (If Applicable)
- Building Permit Application Checklist
- Residential Plan and Permit Acceptance Policy
- Inspection Notice Checklist
- Frequently Asked Questions
- Milford Municipal Code: Site Work Chapter 15.02

Incomplete Applications will not be accepted or processed. In order to adequately process your Building Permit Application, the following materials will be required at the time of submission of your application:

- Completed Building Permit Application Form
- Signed & Notarized Owner - Builder Form (If Applicable)
- All items listed on the Building Permit Checklist (incomplete submissions will not be accepted).
- Other supporting materials as applicable.

Should you have any further questions regarding the application materials, process, or laws and ordinances governing Building Permits, please feel free to contact the city office. Thank you for your interest in Milford City, and we look forward to working with you very soon.

Sincerely,

Milford City

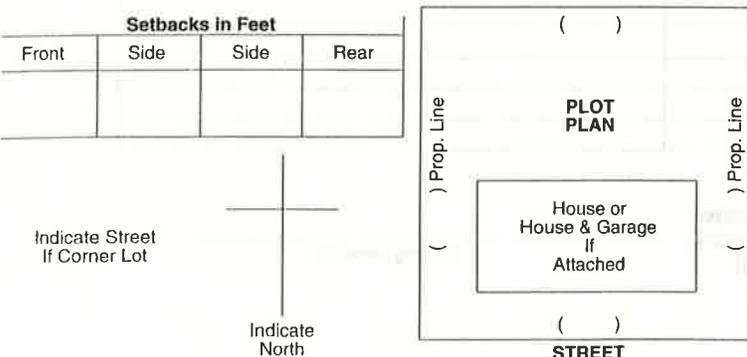
ALL ITEMS WITH ASTERISK * MUST BE FILLED OUT

BUILDING PERMIT APPLICATION BECOMES PERMIT WHEN STAMPED

MILFORD CITY

*Date		Date Issued		Permit Number	
*Proposed Use of Structure		Square Ft. of Building		Valuation	
*Bldg. Address		Rough Basement		Building Fees	
*Address Certificate No.		Finish Basement		Plan Check Fees	
*Assessors Parcel No.		Carport sq. ft.		Electrical Fees	
*Lot#		Garage sq. ft.		Plumbing Fees	
*Block		Other		Mechanical Fees	
*Subd. Name & Number		Type of Bldg.		Water	
*Property Location		*No. of Dwellings		Sewer	
*If metes and bounds see instructions		No. of Bldgs		Storm Sewer	
*Total Property Area - In Acres or Sq. Ft.		No. of Stories		Moving or Demo.	
Total Bldg. Site Area Used		Occ. Group		Temporary Conn.	
*Owner of Property		Type of Construction		Reinspection	
Phone		<input type="checkbox"/> Frame <input type="checkbox"/> Brick Ver.		Other	
*Mailing Address		<input type="checkbox"/> Brick <input type="checkbox"/> Block <input type="checkbox"/> Concrete <input type="checkbox"/> Steel		Other	
City		Max. Occ. Load		Other	
*Business Name Address		Fire Zone			
Business Lic. No.		Fire Sprinklers <input type="checkbox"/> Yes <input type="checkbox"/> No		Total	
*Architect or Engineer		Building Inspector Signature _____			
Phone		Comments: _____			
*General Contractor		Plan Chk. OK by _____			
Phone		Special Approvals			
*Business Address		Board of Adjustment			
*State Lic. No.		Health Dept.			
*City/Co. Lic. No.		Fire Dept.			
Phone		Soil Report			
*Electrical contractor		Water or Well Permit			
Phone		Electrical Dept.			
*Business Address		Flood Control			
*City/Co. Lic. No.		Sewer or Septic Tank			
Phone		Engineer (off site)			
*Plumbing Contractor		Gas			
Phone		Comments: _____			
*Business Address					
*City/Co. Lic. No.					
Phone					
*Mechanical Contractor					
Phone					
*Business Address					
*City/Co. Lic. No.					
Phone					
*Previous Use of Land or Structure					
*Type of Improvement/Kind of Const.		Other			
<input type="checkbox"/> Sign <input type="checkbox"/> Build <input type="checkbox"/> Remodel <input type="checkbox"/> Addition		Bond Required <input type="checkbox"/> Yes <input type="checkbox"/> No Amount			
<input type="checkbox"/> Repair <input type="checkbox"/> Move <input type="checkbox"/> Convert Use <input type="checkbox"/> Demolish		Signature of Approval _____			
*No. of offstreet parking spaces:		This permit becomes null and void if work or construction authorized is not commenced within 180 days, or if construction or work is suspended or abandoned for a period of 180 days at any time after work commenced. I hereby certify that I have read and examined this application and know the same to be true and correct. All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not the granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction and that I make this statement under penalty of perjury.			
Covered _____ Uncovered _____		Signature of Contractor or Authorized Agent _____ Date _____			
SUB-CHECK		Signature of Owner (If owner) _____ (Date) _____			
Zone _____ Zone Approved By _____		Forms by Rollographics, Cedar City, Utah			

Disapproved _____
 Approved _____ Date _____ Sub-Ck. By _____



NOTE: 24 hours notice is required for all inspections.



DEPARTMENT OF COMMERCE
 Division of Occupational and Professional Licensing
 160 East 300 South, Fourth Floor
 P.O. Box 146741
 Salt Lake City, Utah 84116-6741
 (801) 530-6628

OWNER / BUILDER CERTIFICATION
 and
 AGREEMENT TO COMPLY WITH
 THE CONSTRUCTION TRADES
 LICENSING ACT

Name of Owner/Builder: _____

Address: _____

City, State, ZIP: _____

LOCATION OF CONSTRUCTION SITE:

Address: _____

City, State, ZIP: _____

Lot: _____, Block: _____, Subdivision Name: _____

CERTIFICATION

I, _____, certify under penalty of perjury that the following statements are true and correct and are based upon my understanding of the Utah Construction Trades Licensing Act:

1. I am the sole owner of the property and construction project at the above described location; the project described is the only residential structure I have built this year; I have not built more than three residential structures in the past five years.
2. The improvements being placed on the property are intended to be used and will be used for my personal, non-commercial, non-public use.
3. I understand that work performed on the project must be performed by the following:
 - a. myself as the sole property owner; or
 - b. a licensed contractor; or
 - c. my employee(s) for whom I have worker's compensation insurance coverage, for whom I withhold and pay all required payroll taxes, and with respect to whom I comply with all other applicable employee / employer laws; or
 - d. any other person working under my supervision as owner/builder to whom no compensation or only token compensation is paid; and
4. I understand that if I retain the services of an unlicensed contractor or compensate an unlicensed person, other than token compensation, or other than as an employee for wages, to perform construction services for which licensure is required, I may be guilty of a Class A misdemeanor and may be additionally subject to an administrative fine in the maximum of \$2,000 for each day I violate the law.

Dated this _____ day of _____, 20 _____.

 Signature of Owner/Builder

Subscribed and sworn before me this _____ day of _____, 20 _____, in the County of _____,
 State of _____.

 Notary Public

BUILDING PERMIT APPLICATION CHECKLIST

*Incomplete applications will not be accepted and will be returned to the applicant.
All required items shall be submitted with the application.*

Submission Requirements

- ✓ Fill out application form completely and sign. Complete all highlighted areas on the application. Be sure to include:
 - Name of Owner, address, telephone number
 - Building Address
 - General Contractor name, state license number, phone number, copy of current contractor's license and current business license.

- ✓ Complete and Notarize Owner/Builder Form (If Applicable)

- ✓ Submit **two** (2) copies of a Plot plan drawn to scale including the following:
 - Minimum paper size of 8 1/2 " x 11"
 - Scale and date of drawing
 - Property boundaries and dimensions.
 - Layout of existing and proposed buildings, including property lines, roads, power lines, sewer, gas, water lines and any other pertinent features.
 - North Arrow.

- ✓ Submit any applicable plan or required plans
 - Refer to Residential Plan and Permit Acceptance Policy on Page 6.

- ✓ The Beaver County Building Official may require additional information or plans.



City of Milford

405 South Main

PO Box 69

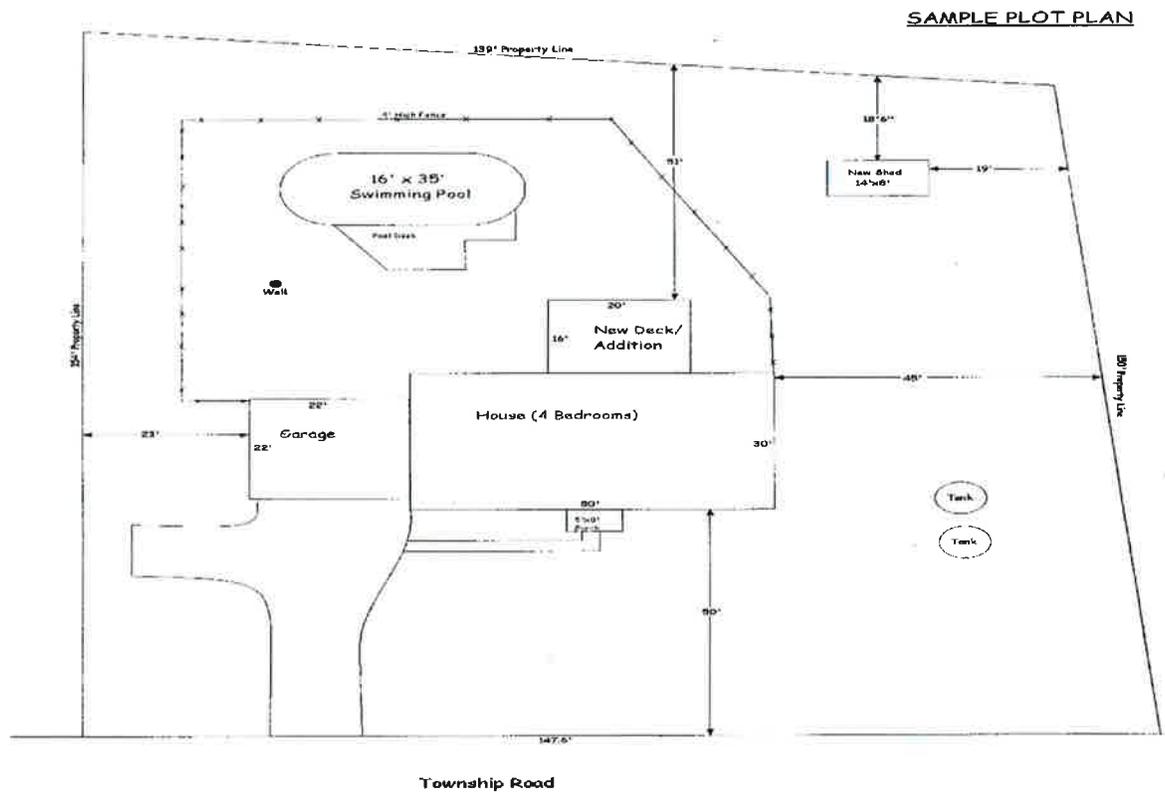
Milford, UT 84751

(435) 387-2711

How To Draw A Plot Plan

A “plot plan” is an accurate drawing or map of your property showing proposed and existing structure(s) location on lot with dimensions, including, but not limited to, property lines, roads, fences creeks, power lines, sewer, gas, water lines, and any other pertinent features.

A plot plan should show what currently exists on your property and what is being proposed.



BEAVER COUNTY BUILDING DEPARTMENT

Residential Plan and Permit Acceptance Policy

Plans must include the following:

- ✓ Plans must be designed to Beaver County's design criteria which is: 30# roof snow load, 30" frost depth, seismic zone "D1", 90 MPH with 105 3 sec gust wind load, exposure "C".
- ✓ Plans must be current set of construction documents that accurately depict the proposed building project and drawn to the current version of the International Residential Code (IRC). Changes to drawings that do not affect the structural features of the building may be approved by the Building Official, but must be drawn neatly and correctly on the plan prior to submission. At the discretion of the Building Official, changes made to structural or exterior dimensions or design may require corrected drawings and/or approval from a licensed structural engineer or architect.
- ✓ Residential Structures that have 2500 square feet or more on the main floor and are more than one story in height, will be required to have construction documents stamped and licensed structural engineer and/or architect. At the discretion of the Building Official, residential structures of any size or number of stories that have unique design features may also be required to have their plans and portions of plans stamped by a professional.
- ✓ A Plot Plan showing proposed and existing structure(s) location on lot with dimensions, including, be not limited to, property lines, roads, creeks, power lines, sewer, gas, water lines, and any other pertinent features.
- ✓ A Footing and Foundation Plan including rebar and size, specs and location, with all footings stepped and continuous, include venting requirements, damp proofing, etc.
- ✓ A Basement Plan (future layout if unfinished) with window sizes and locations for egress along with any other current code addressed issues for basement area.
- ✓ Main Floor Plan with current code requirements addressed.
- ✓ Story Floor Plan with current code requirements addressed.
- ✓ Elevation Drawings with porches, steps and dimensions.
- ✓ Structure wall section drawings with details and dimensions.
- ✓ Detailed Floor Framing Plan with joist and beam sizes and types including dimensions.
- ✓ Roof/Truss Framing Plan with details and dimensions. Truss design and layout package from truss manufacturer with bracing and all engineering specs. (Building Official may allow this to be submitted after plan review)
- ✓ Window and Door Schedule with code required information included in schedule.
- ✓ Stairway Section Drawing with detail and dimensions.
- ✓ Handrail and Guardrail locations with details and dimensions.
- ✓ Plumbing fixtures and sy
- ✓ stem to be drawn and detailed with dimensions.
- ✓ Electrical Plan with detail. Service panel and sub-panel locations indicated on plan. Show smoke and carbon monoxide detectors, GFCI and ARC fault receptacles, and all other devices on drawing.
- ✓ Show heating and air conditioning appliances with detail, sizes and types. Show combustion air, venting and pipe size information.
- ✓ Show water heater location, size and type.

Two Complete sets of plans are required to be submitted with your building permit application.

Note: The above information may not be conclusive of all information necessary to process your application for a building permit.

INSPECTION NOTICE

It is the responsibility of the permit holder or contractor to contact the Beaver County Building Department for all required inspections, which are listed as follows: IBC 109.5

- ✓ Footings, with steel in place and prior to pouring
- ✓ Foundations, with steel in place and prior to pouring
- ✓ Underground electrical & plumbing
- ✓ Framing
- ✓ Rough plumbing
- ✓ Rough electrical
- ✓ Rough mechanical
- ✓ Weather Resistive barrier & flashing (sec. 1403.2-1405.3)
- ✓ Drywall/Firewall
- ✓ Exterior: Siding, Brick or Stucco
- ✓ Gas Piping
- ✓ Electrical service panel
- ✓ FINAL

The list may not be conclusive and may vary depending on the scope of the project. If you have any questions, please contact the Beaver County Building Department at (435) 438-6483.

Please note that the International Building Code Section 110.1 states, "No building or structure shall be used or occupied, and no change in the existing occupancy classification...shall be made until the building official has issued a certificate of occupancy..." A certificate of occupancy will not be issued without all required inspections having been completed and approved.

Criminal charges may be filed for violation of this ordinance.

Signature

Date

FREQUENTLY ASKED QUESTIONS

What are the hours of operation for Beaver County Building Department?

The Building Department is open for business from 9 a.m. to 5 p.m. on Monday through Friday. Field inspections normally 7 a.m. to 3 p.m.

Why do I need a building permit?

ALL structures and construction require building permits to be issued, as of Utah State Law and is intended to control the quality of construction and the use of property. Some permits may not require a fee, but a permit is still required (any off-structure sheds/ carports and utility sheds including Tuff Sheds over 120 sq. feet require a permit).

How long does it take to get a permit?

Allow 5-14 working days.

How much does a permit cost?

The cost of a building permit is usually determined by the structures square footage. Other permits may vary in price.

When is a permit required?

- *A building permit is required for any construction that physically changes or adds structures to your property.*
- *New buildings*
- *Additions: Room additions, patio covers, swimming pools, etc.*
- *Alterations: re-roofs (changing the structure), garage conversions, exterior stucco, etc.*
- *Repairs: Replacement of water heaters or other plumbing fixtures, irrigation systems, air condition units, new electrical service, rewiring, etc.*
- *Moving or demolishing a building*
- *Change of use of structures*
- *Installation of heating equipment, such as: wood stoves, central heat, wall heaters and wood burning or gas fireplaces.*

When is a permit not required?

- *One story detached accessory structures used as tool and storage shed, play houses and similar uses, provided the floor area does not exceed 120 Square Feet.*
- *Fences not over 6 Feet high.*
- *House repairs such as: Painting, tiling, carpeting, cabinets, counter tops and similar work.*
- *Re-roofing (shingles),*
- *Siding on an existing structure.*
- *Replacement of existing windows and doors which does not require alterations to the existing structure.*

Who is responsible for disposing of excess materials from Construction Site?

Milford Municipal Code states under section 15.02.010 excess materials: The developer, owner/building or primary contractor shall make all necessary arrangements to fully contain and dispose of all excess earthen, construction and construction materials and debris in a lawful manner. Debris must, in no case be allowed to become scattered away from the construction site. Disposal of excess site work material left on development lots shall be the responsibility of the Developer, Owner/Builder or Primary Contactor.

What has to be completed for me to get a final inspection and move into my home?

All safety aspects of the home and property need to be completed and inspected by the Building Official prior to occupancy permit being issued.

OCCUPANCY is prohibited until all required inspections have been completed and occupancy permit has been issued!

CHAPTER 15.02

Site Work

SECTIONS:

- 15.02.010 Materials for Site Work**
- 15.02.020 Earthwork Construction**
- 15.02.030 Disturbances and Re-Construction of Improved Surfaces**
- 15.02.040 Applicable Regulations**

SECTION 15.02.010 Materials for Site Work

1. General

- A. The material requirements in this section are provided as general specifications. All materials specified herein may not be needed for development construction. However, for new subdivision development, pipeline and surface improvements, most of these specifications will apply.
- B. Road base and surface course material, bedding material, and backfill materials shall comply to the specifications in this section.
- C. Contractors shall furnish and install all materials as described and specified in this section as required to make improvements and as shown in the detailed drawings included herein, or shown in the construction plans.
- D. Frozen materials shall not be used as pipe bedding, trench backfill, nor earthen fill areas.

- 2. Excess Materials. The Developer, Owner/Builder or Primary Contractor shall make all necessary arrangements to fully contain and dispose of all excess earthen, construction and construction materials and debris in a lawful manner. Debris must, in no case be allowed to become scattered away from the construction site. Disposal of excess sitework material left on development lots shall be the responsibility of the Developer, Owner/Builder or Primary Contractor.

3. Pipe Bedding.

- A. GENERAL. The Contractor shall install pipe bedding around all pipe haunches and 8 to 12 inches over the top of the pipe with a proper material. Sharp angular rock which could damage the pipe shall not be used. Rocks in pipe bedding shall not be larger than approved by the pipeline manufacturer or as specified herein.

B. PIPE BEDDING.

- 1. Pipe bedding is required in all sewer and water pipeline installations and at all locations along the pipeline length. Pipe bedding shall be a fine select material which may be obtained naturally from trench excavation, as long as these specifications are met. Pipe bedding may also be imported material which meets these specifications.
- 2. Pipe Bedding Schedule.

<u>Type of Pipe</u>	<u>Bedding Size</u>
Galvanized Steel Pipe	2"
PVC Pipe	1"
Ductile Iron Pipe	2"
HDPE Pipe	1"

- 3. Bedding size as shown on the above schedule means the maximum mean diameter of stone which is allowed as pipeline bedding material. Any backfill material with larger rock size in a representative backfill material sample (5 gallon bucket) shall not be used.

4. Trench Backfill

- A. NATIVE. As is normally preferred, trench backfill is typically done with native material obtained in excavation operations. This is acceptable as long as the material meets these specifications. The largest rock allowed in backfill trenches over pipelines and fills is 6 inches. If rocks 6 inches and larger are occasionally encountered during backfill operations, the Contractor may pick them out as backfill is being placed. Organic material such as tree limbs, rubbish, debris, and other similar objectionable matter shall not be allowed in backfill trenches. Broken pieces of concrete and asphalt will be allowed in trenches as long as the maximum dimension across any piece of the material is less than 6 inches. Not more than 10 percent of trench backfill material shall be courser than ½ inch in gradation. Frozen earthen materials are not allowed as trench backfill material.
 - B. IMPORTED. Where native trench material is unsuitable or insufficient, the Contractor shall import a native trench material that meets the above specification for native trench backfill.
5. Untreated Base Course
- A. In all areas where roads and streets are to be constructed, bituminous base course (BSC) shall be constructed over an untreated base course or UBC. UBC is required under all structural concrete work such as curb, gutter, and sidewalks. Contractors shall submit to the City a copy of gradation sheets taken at the source crusher by an independent test laboratory for the material being used. The minimum placement thickness of in roads and streets shall be 4 inches or as shown on the drawings. UBC shall meet the following gradation schedule:

<u>SEIVE SIZE</u>	<u>PERCENT PASSING</u>
1"	100
½"	75 to 95
#4	40 to 60
#16	20 to 40
#200	5 to 12

6. Bituminous Surface Course.
- A. On roadway edges for new construction, or in areas where repairs are made, the Contractor shall prime UBC edges or sawcut edges with a two-inch bead of type MC-70-250 bituminous primer material. Hot mix bituminous surface course shall conform to the specifications for asphalt pavement for ½ inch gradation BSC, as found in Section 402 of the State of Utah Standard Specifications for Road and Bridge Construction. Asphalt cement content shall be 6 percent plus or minus 0.5%. The minimum required placement thickness of BSC is 3 inches or as shown on the drawings.
 - B. The Developer shall be ultimately responsible to assure that pavement design and placement thickness of UBC and BSC are suitable for the soils over which roadways are to be constructed to common engineering practice.
 - C. Finishing and placement of BSC shall be done by a lay down machine and further rolled and compacted into place in a smooth, uniform manner. The final pavement surface shall be free of ruts and surface irregularities. A 1 ½ to 2% crown to the middle of the roadways shall be accomplished. If defective asphalt is apparent from pitting or spalling away of the BSC, the Contractor shall remove the defective area by saw-cutting an edge, placement of a primer around the edges, and compacting a suitable material into place.
7. Embankment and Fill Material. When fill material is required to build up an area for proper grade and line, or where embankment for ditches, or bridges is required, the Contractor shall construct the fill or embankment material using approved granular

borrow material from a site approved by the City Engineer. Granular borrow material shall have no rocks or stones larger than 3 inches in any measurement across the stone or rock perimeter.

8. Rip - Rap. Rip-rap material shall be used to line ditches, or on slopes or embankments where the potential for erosion can occur. Rip-rap shall consist of hard, fractured stone. Rip-rap shall be placed loosely in a minimum 8-inch thick layer. No rock smaller than 1-inch thick, and at least half of the rock shall be greater in size than one half the rip-rap placement thickness layer. The specific weight of the stones shall be between 2.5 and 3.0.

(Ord. Ordinance 4-2007 Materials for Site Work, Amended, 06/05/2007)

SECTION 15.02.020 Earthwork Construction

1. General. All earthwork required for construction of pipelines and roads shall conform to this section.
2. Preparation Work.
 - A. Clearing and Grubbing. Prior to construction of pipelines or roadways, the Contractor shall clear and remove all trees, brush, roots, and other objects from the area scheduled to receive improvements. All debris shall be removed from the site so as to not allow for wasting the materials in pipeline trenches or under construction or roadways and concrete work. Areas under roadways must particularly be cleared of all roots. This requires a minimum of 12 inches to be removed from a brushy or tree laden area.
 - B. Disposal. The Developer shall dispose of objectionable material at his own expense at a disposal site where such material can be legally and lawfully wasted. Debris from clearing and grubbing must be wasted away from development sites at a location outside of the Milford City limits to avoid unsightliness and danger to City residents.
3. Excavation.
 - A. The Developer shall be ultimately responsible for damage to existing underground facilities during excavation operations. The Contractor shall contact all appropriate public utilities for notification of construction activity and for marking and locating of underground lines. The City shall assist the Developer in locating underground utilities owned and operated by the City.
 - B. Where excavation is done too deep for proper elevation placement of concrete structures, the Contractor shall fill with UBC and compact to the desired elevation for construction of concrete footings. Where excavation is done too deep for proper elevation placement of pipelines, the Contractor shall fill the void with a sandy or granular material to support the pipeline for its entire length. Pipelines and structures shall be installed in excavated areas or trenches only after the trench is compacted to 95% of maximum proctor density.
 - C. Conflicts in line and grade of existing pipelines requiring adjustments to line and grade of water and sewer pipelines shall be approved by the City Engineer or Public Works Director.
 - D. Where mud or unsuitable soil is encountered where pipeline, road, or structure construction is scheduled, the Developer shall allow time for the soil to dry out, or excavate and remove the material prior to construction of roads, pipelines, or structures.
 - E. In areas where the Developer will be connecting to existing city facilities under improved surfaces, the Developer shall saw-cut a sufficient area to allow for construction of trenches without disturbing asphalt. The Contractor shall restore

- the surface improvements such as asphalt, or sidewalk to it's original condition. Concrete or asphalt pieces removed may be used in trench backfill only if the pieces meet the specifications under site work materials (Section 15.02.010)
- F. Opening Trenches. At no time shall an open trench in construction be more than 500 feet in length. An open trench is defined as the condition of earthwork excavation which will allow for pipeline installation at it's proper line and grade. Trench access will be available at every 100 feet of trench length for trenches deeper than 5 feet. Ladders shall be situated such that a workmen in the trench would have to walk no more than 50 feet to access a ladder. Ladders should extend at least 2 feet above the trench. No trenches shall be allowed to stay open overnight.
 - G. Blasting. Solid rock formations encountered during normal excavation may require blasting operations to construct the necessary improvements. Blasting is normally prohibited in the City Limits and shall only be allowed by issued written permission from the City. The Contractor shall have shown that no other method of excavation is feasible prior to requesting permission for blasting. Blasting shall be done only by qualified and experienced blasting Contractors. The Developer shall be ultimately responsible for any claims, damages, injuries, complaints, or any other alleged damages resulting from blasting operations. No blasting will be allowed within 15 feet of an existing above or underground structure. All blasting shall comply with State and Occupational Safety and Health Act (OSHA) requirements.
 - H. Trench Reinforcement. Where necessary trenches and other excavations may require trench boxes or shoring in order to construct pipelines or other underground improvements. The Contractor shall be responsible for shoring and maintaining the integrity of pipelines crossed by trenching operations. In areas where the trench is deep, the Contractor shall either excavate out at a 2:1 slope, or utilize trench boxes for the safety of workmen. Shoring and reinforcement may be more appropriately done by installation of piers and sheeting. However, nothing in this section or elsewhere written herein shall be considered as allowance of trenching operations which depart from safety operations specified in standards set forth by OSHA.
 - I. Waterways and Trench De-Watering. The Contractor shall stockpile trench materials in such a manner as to avoid any disturbance of existing waterways. Any damage done to city or other properties as a result of neglect by the Contractor in maintaining existing waterway integrity shall be the responsibility of the Developer. Additionally, no water shall be allowed to drain into trenches from storm, farming, or ditch runoff. Water shall be allowed into the trenches for the express purpose of obtaining optimum moisture for compaction. Trenches that fill with water shall be pumped dry and/or excavated and replaced with dry suitable backfill material. Water jetting to obtain compaction and settlement of trenches is not allowed.
4. Pipeline Bedding
- A. Pipeline bedding material shall comply with the specifications found in Section 15.02.010 for each type of pipeline. Care shall be taken to assure that coated pipelines shall not be damaged. In the event damage occurs, proper measures shall be taken to repair damages to the coatings.
 - B. Pipeline bedding shall be placed in such a manner as to support the pipe for its entire length. Bedding shall be placed and compacted around the pipe to obtain 90% of maximum standard proctor density. Care shall be taken to compact under

pipeline haunches. Pipeline bedding shall be placed and compacted in two or more, 6-inch lifts.

5. Backfill, Compaction & Testing.

A. Backfill material shall be as specified in Section 15.02.010. Backfill shall be accomplished in lifts of no more than 18 inch lifts or less. The following densities shall be achieved using a standard proctor curve (ASTM D-698 or AASHTO T-99) for maximum density comparison in areas as listed:

<u>Type of Backfill</u>	<u>Percent of Maximum Density</u>
Pipe Bedding	90%
Trench Backfill (in areas under unimproved surface areas)	90%
Trench Backfill (in areas under improved surfaces & roadways)	95%
Fill Under Structures, Buildings, & Manholes	95%
Fill adjacent to structures, outside of roadways	90%
Embankments & Fills	95%

B. Compaction testing shall be done by a State Certified testing laboratory at the Contractor's expense. The frequency of tests shall be done as follows in random locations, or at locations requested by the inspecting agent:

1. Standard Proctors: One proctor per every type of soil encountered in construction used as backfill. For imported material, or UBC, one test per source.
2. Trenches crossing streets less than 50 feet in length: Three tests in differing lifts.
3. Trenches in streets running parallel to roadway: One test per 100 feet in differing lifts. Three tests minimum per section.
4. Embankments or fills: One test per 400 cubic yards.
5. Near Structures: Two compaction tests per structure.
6. For UBC and Roadbase under improved roads: One test per 100 lineal feet of roadway.
7. For UBC and Roadbase under sidewalks, curb, and gutters: One test per 100 lineal feet of sidewalk, curb, and gutter.

SECTION 15.02.030 Disturbances and Re-Construction of Improved Surfaces

1. General. Improved surfaces described herein include UBC and BSC paved roads and driveways, sidewalks, and curb and gutter, lawns, fences, and landscaped greenery. All construction reflecting in disturbance to existing improved surfaces, whether private or public, shall be replaced to a condition equal to, or better than existed prior to construction.

2. Requirements.

A. UBC & Gravel Roads. Prior to trenching and construction operations in graveled roads, the existing gravel shall be bladed away and stockpiled separately for replacement. The Developer may opt to not stockpile the material and import all material required for replacement. After completion of construction of pipelines, or trenches, the Contractor shall replace the stockpiled material and supplement the material with additional UBC conforming to these specifications until a minimum of 4-inches of UBC or gravel material is replaced. Grade smooth and compact.

B. BSC Paved Roads. In areas anticipated for disturbance by construction operations, the Contractor shall saw-cut the perimeter of the anticipated disturbed area

prior to excavation. Cuts may be done with an asphalt saw-cutting machine, or pneumatic roller type blade. Cuts shall protrude through the entire bituminous layer. Cuts shall be made in neat straight, lines. If damage is done to the pavement outside of the saw-cuts areas, the Contractor shall re-cut and remove the damaged asphalt. Large pieces of broken up bituminous material may be used as backfill as long as the material is sufficiently broken down into smaller pieces that meet backfill requirements in these specifications.

After completion of pipeline work, the disturbed area shall be brought back up to below finish grade and compacted into place to an elevation that will allow for placement of a minimum of 4 inches of UBC and 3 inches of BSC or previously existing thickness, whichever is greater. The edges of the BSC shall be primed with MC-70 primer prior to placement of BSC. Enough material shall be installed to assure that the surface restoration is slightly higher than the undisturbed areas. Surface replacements resulting in depressions shall be removed and replaced. All surface replacement shall be subject to final approval and acceptance by the authorized City agent.

- C. Curb, Gutter, and Sidewalk. Removal of these improvements shall be done by saw-cutting, and removing sections, or total removal and replacement of concrete. During replacement of the improvements all joints between undisturbed and restored concrete shall be done with expansion joints and ½ inch radiused edges. Saw-cut edges shall be ground down from sharpness with a carborendum stone or by other means of grinding to prevent the joint from chipping and breaking.
- D. Fences, Lawns, & Landscaping. These improvements are typically owned by private entities. The Contractor shall be responsible for repairs to fences, lawns, and landscaping to the satisfaction of the private owner. Assure that easements or agreements with the appropriate owner are executed prior to working on private property. Do not stockpile pipe or other construction materials or debris on private property without express written permission to do so by the property owners.

SECTION 15.02.040 Applicable Regulations

3.05 Administrative Citations

(Ord. Ordinance 5-2007 Applicable Regulations, Amended, 06/05/2007)