



Marion County

OREGON

Public Works Land Development Engineering & Permits

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Utility
Construction
General
Provisions

UTILITY CONSTRUCTION GENERAL PROVISIONS

GENERAL

1. Details on approved plans shall have precedence over any applicable general provision following. These provisions shall have precedence over any other general provisions in the plans that deal with the same subject.
2. The identification signs for the permittee shall be in place before the start of work and shall be on site during the construction period until all the work on the project is complete. See the Identification Sign Requirement Special Provision in the Right-of-Way Permit General Provisions.
3. The County shall be notified prior to the start of work by email to MCLDEP@co.marion.or.us. See Right-of-Way Permit General Provisions.
4. ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is 503-232-1987).
5. Utilities shall typically be constructed as close to the right-of-way line as possible.

TRAFFIC CONTROL

6. Specific traffic control plans may be required as a part of the permit. Temporary traffic control signage shall be 36" x 36" clean signs in good repair. The work area during construction or maintenance performed under the permit provisions shall be protected in accordance with the current Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, US Department of Transportation (USDOT), and the Oregon Department of Transportation (ODOT) supplements thereto, including the latest version of the Oregon Temporary Traffic Control Handbook. Flaggers must have a current card or certificate indicating their completion of an approved work zone traffic control course.
7. Members of the crew, including the equipment operator, shall wear high visibility apparel labeled as ANSI (most recent version), while in the public right-of-way. Truck drivers need to wear safety apparel if outside the truck cab. Company visitors and representatives must wear safety apparel when outside vehicles in the right-of-way.

8. Allowable work hours are generally daylight hours Monday through Saturday. Work on roads which impacts traffic and is within the urban growth boundary or is on arterial roads may be restricted to 8:30 AM to 3:30 PM. Work on Cordon Road, Lancaster Drive, Silverton Road west of Cordon Road, State Street west of Elma Street, or First Avenue in Stayton which impacts traffic, will typically only be approved to be done at night from 9:00 PM to 6:00 AM, unless otherwise stated in the permit, and shall require approved traffic control plans before starting the work.
9. If a permanently installed traffic sign is in the way of the work, the sign may temporarily be installed on Type 3 barricades when approved by the County inspector, but in no case may a sign be leaned up against another object, set aside, placed on the ground, or moved to another location.
10. The County, at the permittee's expense, shall replace damaged or removed road signs. Any traffic striping removed or eradicated shall be temporarily re-marked and maintained by the utility company. Permanent re-striping may only be done by the County through a billable work order.

SITE ORGANIZATION

11. Attempt shall be made to have construction items such as equipment, shoring, vaults, reels, etc. stored off the right-of-way. Items allowed to be stored in the right-of-way of non-curbed roads shall be at least 10' off the edge of pavement and shall be coned off at night. Backfill material and asphalt cold patch material must also be stored at least 10' off the edge of pavement. No storage of materials is allowed on the pavement of curbed streets, including portable toilets.
12. Temporary and permanent erosion and sediment control measures shall be used as needed and required. The contractor shall adhere to controlling agency's standards for control measures.

INSTALLATION

13. All work in the right-of-way shall conform to the Marion County Engineering Standards and the County approved project plans, and shall meet general industry standards. Work shall be guaranteed for at least one year after the completion of the permitted project. The project shall be complete only with a final County inspection.
14. Where new facilities cross or come near existing utilities, the existing facilities shall be located for potential conflicts. Potholing shall be done according to the "Pothole Construction" detail (See Attachment A).
15. No plowing of cables/conduits is allowed in the In-Zone (See Attachment B). No plowing machine is allowed on, or within 2', of the pavement. Plow lines shall be, at a minimum, wheel compacted and the plow line shall be left slightly high. Plow lines shall not be left lower than the adjacent ground. The plow lines may need to be refilled and/or regraded if settling occurs. Rocks, roots and rubble brought up to the surface by the plow shall be removed from the site daily.
16. Underground utilities shall be bored under culverts that are larger than 18". Utilities constructed over County culverts shall be protected in steel conduit within 10' of the culvert. Utilities near culverts shall have at least 12" of separation.

17. Underground electrical power and gas utilities shall be buried with at least 36" of cover. All other utilities shall have at least 30" of cover. Any utilities scheduled for less than 30" of cover must have prior County inspector approval.
18. All approved underground construction in potential slide areas shall be done by boring: South Salem has many designated slide areas.
19. Abandoned overhead lines and all temporary lines laid above ground shall be removed in a timely manner not to exceed six months.
20. The area around above ground utility objects such as pedestals and cabinets shall be maintained such that there shall be clear visibility of the object from the road. Typically, these objects shall have a 5' clear zone maintained around the object and out of the road. The clear zone shall have no vegetation more than 12" high and at least 18" of the object shall be clearly visible from the road at all times.
21. Underground utilities shall not cross County roads within 100' of bridge abutments. Typically, new crossings at bridges and structures will not be allowed to attach to the structure.
22. When crushed rock backfill is approved in lieu of Controlled Density Fill (CDF) for trenches in the In-Zone, the trench shall be compacted with a hydraulic vibratory plate or vibratory "sheep's foot". Gravel shoulders shall be compacted with a vibratory roller. Water jet/vacuum excavation holes in the In-Zone shall be backfilled with non-compressible backfill (CDF).
23. All crossings (including bored crossings) of County roads require casings (over-sized sleeve) except for the gas transmission lines of NW Natural (Northwest Natural) as the pipes as installed, are already within casings. Casings shall extend at least 10' beyond the edge of pavement. Bore pits are normally required to be outside the In-Zone. When bore pits are approved in the In-Zone, they shall be a minimum of 5' from the edge of pavement. Carrier pipe and conduit shall meet PUC and industry standards.
24. Minor local area distribution structures such as vaults/cabinets/pedestals may typically be constructed above ground and shall be placed back at the right-of-way line. Bollards shall not be used to protect structures. Structures allowed on roadside gravel shoulders shall be flush with the ground and 5% down from the pavement, and shall not conflict with the roadside drainage. Structures on roads with grades greater than 6% shall be at least 12" below the shoulder surface or located off the shoulder.
25. Major above and below ground structures such as those used for transforming, regeneration, pressure reduction, meter stations, valve control, pumping stations, cellular phone towers, etc. must be constructed outside the right-of-way. Off street parking shall be provided for servicing the site. Per the Federal Communication Commission (FCC) Declaratory Ruling and Third Report and Order 18-133 structures, as previously defined, associated with Small Cell wireless facilities are exempt from this provision.

26. Disturbed shoulders shall be regraded and compacted to a 5% down slope from the pavement with 1" minus crushed rock. Shoulders contaminated with soil shall be excavated down to clean rock or as directed by the inspector, and replaced with 1" minus compacted rock.
27. Underground utilities shall cross the road at 90 degrees to the centerline of the road.
28. Typically, no new meters shall be placed in the right-of-way and existing meters in the right-of-way shall be removed in conjunction with adjacent projects. In specific situations, and only by approval of the County, a meter may be placed in the right-of-way. Per FCC Declaratory Ruling and Third Report and Order 18-133 meters associated with Small Cell wireless facilities are allowed in the right-of-way.
29. County identified utility installation problems such as cables left laying on top of the ground or failure to bury to proper depth, must be rectified through a job specific permit.

ROAD SURFACE RESTORATION

30. Pavement cuts will only be allowed with written approval from the County. Pavement cuts shall have clean saw cuts and be patched following the County "Pipe Trench and Pavement Patching" detail (See Attachment C) and Blanket Inlays are required to complete the pavement restoration (See Attachment D). Crossing of gravel roads shall be back filled with 1" minus crushed rock from the outside edge of the shoulder to the opposite shoulder, and compaction tests may be required.
31. All excavated pavement and excess paving mix shall be removed from the right-of-way. Approved sawed pavement edges to be left overnight shall have a gravel shoulder of 3:1 or flatter. All shoulder slopes over 10% and within 10' of traffic shall have an abrupt edge warning sign and shall have lighted barricades at night.
32. Damaged pavement will be assumed as construction caused damage unless identified by the contractor prior to the start of work as existing damage. Video-taping the work site before the start of work is recommended.
33. Cuts on a gravel road which have had a dust control treatment within the past 6 months, shall have the disturbed area re-treated.
34. Backfill material and pavement thickness shall typically be called out in the permit. Local roads shall have a minimum of 12" of crushed 1" minus rock and 4" of asphalt. Compaction tests on backfills and asphalt shall be done by an independent certified tester and the results shall be sent to Marion County - Land Development Engineering and Permits. Email to MCLDEP@co.marion.or.us.

ROADSIDE RESTORATION

35. Disturbed drainage ditches south of Salem and west of I-5 that have slopes greater than 5% shall be rip-rapped with 3" quarry rock. Rock check dams in the ditches may also be required.
36. No natural drainage shall be modified without County approved.

37. If 10' or less of sidewalk is removed, it shall be replaced with 4" of 3,000 PSI concrete and expansion joint material shall be used at one end. If more than 10' needs to be removed, the County inspector shall be contacted for direction of the work.
38. Curbs shall not be removed without County approval.

VEGETATION RESTORATION

39. Property owners shall be given at least two weeks of prior notice to remove any vegetation in the right-of-way along their frontage that will be impacted by the construction. The permittee will not be required to remove vegetation per property owners' desires. The owner shall be given any vegetation removed if they should so desire, including felled trees, and this vegetation shall be placed on the adjacent private property, out of the right-of-way. Felled trees left for the property owner are not required to have limb removal or be cut to size by the utility company.
40. Landscape disturbed by construction shall normally be restored. Shrub and tree trimmings shall be removed daily from the site. Lawn area restoration shall include a minimum of 4" of topsoil to match the original elevation and shall be raked free of rocks and debris. The area shall be re-seeded after the first fall rains or earlier if approved by the County and adjacent property owner. The County shall approve the lawn seed mix. Planted shrubs shall be replaced in kind. Trees and volunteer shrubs shall not be replaced.
41. Disturbed slopes in the right-of-way, which are outside landscaped areas, shall be strawed and seeded with an approved grass mix. Slopes shall be strawed and seeded as areas are completed, and no less than on a weekly basis. Areas completed after June 1 shall have the seeding postponed until after the fall rains begin or as directed by the County inspector. "Fall rains" are defined as the first rainfall on or after October 1st.

WORKING CONDITIONS

42. The road shall be kept clean of dirt and debris. Flushing of the pavement shall be used to control dust. Any dirtied pavement shall be flushed clean at the end of each workday as a minimum, and flushed sooner if needed.
43. All construction trash including containers, wire stripping, ribbons, etc. shall be removed from the site daily.
44. At the end of the project, the site shall be left in the condition as found or better.
45. Any failure in the proper and timely restoration of the road surface, the roadside, and/or vegetation on the site shall be cause for Marion County to make or have made the restorations at the permittee's expense.

SPECIAL PROVISIONS

UNDERGROUND WORK IN THE ROADBED INFLUENCE ZONE (IN-ZONE) (ALSO SEE IN-ZONE DETAIL)

46. No installations using plowing are allowed in the In-Zone. Unless otherwise specified, all permitted trenching in the In-Zone shall be backfilled with 1" minus crushed rock aggregate at 95% compaction using the T-99 test. Certified compaction test(s) may be required.
47. Permitted work outside the In-Zone shall be clean native soil at 90% compaction unless otherwise specified.
48. No portions of bore pits are allowed in the In-Zone unless specifically permitted. (Permitted bore pits encroaching into the In-Zone shall be backfilled with non-compressible backfill (CDF) unless otherwise specified.)
49. Potholing in the In-Zone shall be done only with water jet/vacuum excavation with a 10" maximum cored hole. Restoration shall be non-compressible backfill (CDF) and 6" of asphalt.
50. Any recent pavement damage found at the completion of the project shall be assumed as project damage unless called out by the applicant or contractor before the start of work as "prior damage". Noted prior damage may be emailed to MCLDEP@co.marion.or.us.
51. Pavement damaged by the project shall be restored with a minimum of a 6" "T" asphalt patch and an asphalt inlay per Marion County Blanket Inlay requirements (See Attachment D).
52. Repairs on damaged pavement or drainage systems require review and approval of the inspector before the restoration.
53. Any disturbed Marion County drainage pipe shall be removed with soils excavated to firm, native soil. Reinstallation shall include bedding and backfilling with 1" minus at 95%. Inlets or outlets which are disturbed may require grouted riprap as directed by the County Engineer.
54. Disturbed ditches with grades of 5% or more may require riprap as directed by the County Engineer.
55. All disturbed ditches and slopes shall be seeded and mulched before expected rain as directed by the County Engineer.
56. Any equipment causing pavement damage shall immediately cease work and be removed from the road. Marked pavement may require blanket inlay restoration as directed by the County Engineer.

ROAD PUSH/BORE

57. Utilities shall cross the road at 90 degrees to the centerline of the road.
58. No portions of bore pits are allowed within 6' of the pavement unless specifically permitted.

59. Repairs on damaged pavement or drainage systems require review and approval of the inspector before the restoration.
60. Any portion of the road surface, base, shoulder, or ditch disturbed or damaged as a result of the work shall be restored to its prior existing condition.
61. Underground utilities shall be bored under culverts that are larger than 18". Utilities constructed over County culverts shall be protected in steel casing within 10' of the culvert. Utilities near culverts shall have at least 12" of separation.
62. Any disturbed Marion County drainage pipe shall be removed with soils excavated to firm, native soil. Reinstallation shall include bedding and backfilling with 1" minus at 95% compaction. Inlets or outlets which are disturbed may require grouted riprap as directed by the County Engineer.
63. Disturbed ditches with grades of 5% or more may require riprap as directed by the County Engineer.
64. All disturbed ditches and slopes shall be seeded and mulched before expected rain as directed by the County Engineer.
65. Any equipment causing pavement damage shall immediately cease work and be removed from the road. Marked pavement may require blanket inlay restoration as directed by the County Engineer.
66. Underground utilities shall not cross County roads within 100' of bridge abutments. Normally, new crossings at bridges and structures shall not attach to the structure.
67. Members of the crew, including the equipment operator, shall wear high visibility apparel labeled as ANSI (most recent version), while in the public right-of-way. Truck drivers need to wear safety apparel if outside the truck cab. Company visitors and representatives must wear safety apparel when outside vehicles in the right-of-way.
68. Potholing for visible locating in the pavement and/or shoulder shall only be done by water-vacuum system using a maximum 10" cored hole. backfill shall be non-compressible backfill (CDF) with a minimum of 6" of compacted cold mix asphalt left 1/2" high.

A: Pothole Construction Detail

B: In-Zone Detail

C: Pipe Trench and Pavement Patching Detail

D: Blanket Inlay Detail

E: Non-Compressible Backfill (CDF – Control Density Fill) Detail

F: CDF Informational Recipe

G: Standard Sidewalk Detail

H: Notes for Urban Streets