



Altoona Supplemental Specification

General Specifications:

1. The contractor shall maintain traffic control throughout the entirety of the project. All traffic control plans shall be approved by the City of Altoona prior to installation. This includes closing construction entrances while not in use.
2. Working hours are 7 AM to 9 PM M-F, 8-5 Saturday unless otherwise specified. Sunday and Holidays by approval of the engineer only.
3. All seeding on City owned property is to be in Type 1 (permanent Lawn Mixture) unless otherwise specified. This includes but is not limited to: ROW (including center median), parks, detention basins and the area along bike paths.

Sanitary Sewer Specifications:

1. All manholes should also be marked with metal TEE posts. Paint posts marking manholes green from top to grade.
2. The contractor shall mark all sanitary sewer service ends with a 2X4 that extends from the capped end to within 1 foot of final grade and a metal TEE post. Stop all rock bedding 5' short of the end of the sanitary sewer service. Sanitary sewer services are to be extended to 10-feet inside property line. The top 1-foot of the posts marking services is to be painted green and tape brought up to the surface.
3. Video inspection of all new sanitary sewers is required. Each line section is to be its own video and be in Wincan v. 8 or newer, MPEG or WMV formats. If format is other than Wincan v. 8 or newer, demonstrate prior to performing video-inspection, that files can be converted and merged into Wincan v. 8 or newer and that format is acceptable to the City of Altoona. Additionally, a map with city of Altoona manhole numbering will be provided by engineer.
4. Flush sanitary sewer with dyed water after cleaning but prior to video. Excess dyed water shall be present in manholes during video.
5. Sanitary manhole castings and adjusting rings are to be bolted to top of manhole using four (4) stainless steel or hot dipped galvanized ½-inch threaded rods. For manholes that do not have threaded inserts cast in them, Drill in non-corrosive, threaded expansion type anchors. Manholes installed with a molded plastic infiltration barrier "top hat" are not required to be bolted down.

Storm Sewer Specifications:

1. The contractor shall mark all storm sewer service ends and manholes with metal TEE posts. The top 1-foot of the posts marking services is to be painted white. Paint posts marking storm manholes white from top to grade.
2. All storm sewer services are to be 2-inch and have a minimum depth of 4-feet. Storm sewer services are to be extended to 6-feet inside of the ROW.
3. Castings for storm drains shall have the following imprinted in them: "DO NOT DUMP-DRAINS DIRECTLY TO STREAM" or similar wording.

Water Main Specifications:

1. All valves and curb boxes are to be marked with metal TEE posts and to be painted blue.
2. Services shall be a minimum of 1-inch copper tube size and be installed and installed with fittings rated to a minimum of 150 psi. Water services are to terminate at curb boxes that are to be located six (6)-feet inside the R.O.W. All non-metal services require trace wire to be installed but not attached to the trace wire on water main. Tracer wire is to be grounded within 3' of water main with a ground rod and terminated at the curb stop box.
3. Tracer wire is to be brought up outside of valve boxes and fed inside through slot cut in valve box just below top when they are not in pavement. Tracer wire at fire hydrants is to be terminated at post-mounted boxes mounted to the fire hydrant.
4. All fire hydrants are to be furnished with a factory coat of red paint.
5. All fire hydrants are to be furnished with one pumper nozzle outlet with a 5-inch Storz-type, quick-connect coupling and cap. The caps for the 5-inch Storz couplings shall have external wrenching lugs and a chain attached to the fire hydrant shall retain the cap. The 5-inch Storz nozzles are to be factory installed and integral with the hydrant. Storz-type nozzles and caps shall comply with the dimensional requirements of NFPA 1963 Standard for Fire Hose Connections, specifically chapter 4, non-threaded connections.

PCC Paving Specifications:

1. After September 30th, use a mixture of white pigmented curing compound and linseed oil for curing PCC Pavement is required.
2. Provide full depth saw cut where new pavement matches existing pavement, if needed. The City of Altoona will determine the need and location of the saw cut. A minimum of one panel of existing pavement may need to be removed and replaced at no cost to the City of Altoona.
3. Sections of curb & gutter and pavement panels that are damaged during construction will be removed and replaced in their entirety. No partial panels or sections will be allowed.
4. A panel with 2 or more random cracks will be required to be removed and replaced.
5. All non-paved median sections after paving are to have all rock and excess concrete removed and replaced with top soil up to 18" below top of curb.
6. All manholes that in in street paving require the use of a three-piece manhole. A steel mat is required around the manhole using #4 epoxy coated rebar, 4' on center and a minimum of 15' in each direction.
7. All truncated domes shall be provided yellow in color unless otherwise noted. All truncated domes installed in sidewalk 8' or wider shall be cast iron in material.