

Standards and Specifications Changes & Updates

January 2025 Edition

The following updates/changes to the Town of Erie's Standards and Specifications for Design and Construction of Public Improvements have been PROPOSED:

UNIVERSAL

- No changes

COVER SHEET

- No changes

TABLE OF CONTENTS

- No changes

SECTIONS

SECTION 100 - *Title, Scope and General Requirements*

- Added the following abbreviations:
 - ROW - Right of Way Permit
 - SWQ – Stormwater Quality Permit
 - SCM – Stormwater Control Measure
- 141.05 Protection of Streams, Lakes and Reservoirs

The Developer and Contractor will take all necessary precautions to prevent pollution of streams, lakes, and reservoirs with fuels, oils, bitumen's, calcium chloride, or other harmful materials. They will conduct and schedule their operations so as to avoid or minimize siltation of streams, lakes and reservoirs. See Section 151.00 Stormwater Quality Permit. [A stormwater quality permit and floodplain permit may be needed depending on the scope of work. Please see section 151.00 and Section 154 respectively for reference as it applies.](#)

Reason: Revisions made to clarify that a SWQ and FP permit may be required.

- 141.07 – 143.00 Traffic Control, Barricades and Warning Signs

The term Traffic Control Plan (TCP) has been updated to Method of Handling Traffic (MHT) as is the appropriate terminology used.

- 151.01 – 153.01 Application for Permit

Updated language to include the online submittal process (eTRAKiT) for the implementation of Central Square.

▪ 152.01

Applicants for public (and private) improvement permits shall complete an application in ~~writing eTRAKiT and provide information required on a Public Improvement Permit Fees (PIP) form furnished~~ by the Department of Public Works. Each application shall require the following:

- A. Identify and describe the work to be covered by the permit for which the application is made including the type of work or improvements intended.
- B. State the valuation of the work to be performed and include the subdivision name and filing number.
- C. Provide quantities for the following improvements:
 - a. Water Improvements
 - b. Storm Drainage Improvements
 - c. Surface Improvements
 - d. Sanitary Sewer Improvements
 - e. Landscape Improvements
 - f. Miscellaneous Public Improvements
 - i. This will include items such as a retaining wall or other miscellaneous improvements located in the Right-of-Way
- ~~B-D.~~ Describe the land on which the proposed work is to be done by legal description, street address, or similar description that will readily identify and definitely locate the proposed work.
- E. Upload plans, diagrams, computations and specifications, and other data as necessary to identify the quantities of improvements provided.
- F. Provide contact information for the following as applicable:
 - a. Applicant
 - b. Owner
 - c. Contractor
 - d. Earthwork contractor
 - e. Concrete contractor
 - f. Pipeline contractor
 - g. Paving contractor
 - h. Landscape/Erosion Control contractor
- G. Review application and submit for review by the Town Engineer.
- ~~C.~~ ~~Indicate the type of work or improvement intended.~~
- ~~D.~~ ~~Be accompanied by plans, diagrams, computations and specifications, and other data as required in Section 160.00 of these STANDARDS AND SPECIFICATIONS.~~
- ~~E.~~ ~~Be accompanied by a Construction Traffic Routing Plan as defined in Section 162.02 of these STANDARDS AND SPECIFICATIONS.~~
- ~~F.~~ ~~State the valuation and the quantities of the work to be performed.~~
- ~~G.~~ ~~Be signed by the applicant or his/her authorized agent, who may be required to submit evidence to indicate such authority.~~
- ~~H.~~ ~~Submit a starting and completion date and give such other data and information as may be required by the Town Engineer or designee.~~

Reason: Updated language to include the online submittal process (eTRAKiT) for the implementation of Central Square.

- 154.00 Floodplain Development Permit

A floodplain development permit is required for all construction or other development in the special flood hazard area.

- 154.01 Permit Issuance

The Public Works Director or designee shall review the application, plans, specifications and other data filed by an applicant for a permit. Other departments of this jurisdiction may review the plans to verify compliance with any applicable requirements. If the Public Works Director or designee finds that the work described in an application for a permit and the plans and other data filed therewith conform to the requirements of these standards and specifications, National Flood Insurance Program and other pertinent laws and Municipal Codes and that all required fees have been paid, he/she will issue a permit to the applicant.

The Town shall perform a completeness review on the permit application which shall take up to three (3) days to complete. Upon approval for completeness, the permit application shall be routed for technical review. The technical review for the permit application shall take up to fourteen (14) days to complete and submit any comments needing to be addressed to the applicant. All comments shall be addressed and resubmitted for another round of technical review which shall follow the same ten (10) daytime frame. The Town may determine that more time is required and reserves the right to request more time for a review pending complexity of the permit application and the workload of staff. The issuing and granting of a permit will not be construed to be a permit for, or an approval of, any violation of any of the provisions of these STANDARDS AND SPECIFICATIONS or of any regulations of this jurisdiction. No permit presuming to give authority to violate or cancel the provisions of these STANDARDS AND SPECIFICATIONS shall be valid.

The issuing of a permit based on plans, specifications or other data will not prevent the Public Works Director or designee from requiring the correction of errors in said plans, specifications, and other data, or from stopping construction operations which are in violation of these STANDARDS AND SPECIFICATIONS or any other regulations of this jurisdiction.

Reason: This section added so that floodplain development permits are referenced in the Town's Standards and Specifications

- 155.01

A pre-construction meeting shall be required prior to the issuance of any permits for construction and may be held in conjunction with pre-construction conferences for other permits. The Town Engineer or designee or their representative will be notified a minimum of two (2) working days (forty-eight [48] hours) before the planned construction is to begin. The Town reserves the right to require more advanced notice of planned construction that the Town Engineer or designee or their representative deem to be more impactful to the Town, its residents, and other impacted persons.

For residential development projects that have been permitted, a pre-construction meeting shall be required prior to the start of vertical construction. The Town Engineer or designee or their

representative will be notified a minimum of two (2) working days (forty-eight [48] hours) before the planned construction is to begin.

Reason: Deleted to not restrict to only vertical construction activities

▪ **161.02.01 Plan Requirements**

- A. North arrow pointing to the top of the sheet or to the right except in special cases.
- B. Property lines; indicate lots to be served by solid lines; other property lines dotted
- C. Ownership or subdivision information
- D. Street names and easements with width dimensions
- E. Existing utility line (buried) locations and depth, water, gas, telephone, storm drain, irrigation ditches, and sanitary sewers.
- E.F. Existing tracts, facilities, amenities on adjacent properties.
- E.G. Other pertinent details, i.e. houses, curbs, water courses, etc.

Reason: Added to determine when easements are needed.

▪ **161.02.04 Storm Drainage Construction Plan Requirements**

- A. Drainage area plan; an overall plan of the area under study showing:
 - 1. North arrow
 - 2. Contours – existing and proposed finished (maximum two-foot intervals)
 - 3. Location and elevation of benchmarks
 - 4. Property lines
 - 5. Boundary lines (counties, districts, tributary area, etc.)
 - 6. Streets and street names and approximate grades
 - 7. Subdivision (name and location by section)
 - 8. Existing irrigation ditches
 - 9. Existing drainage ways including gutter flow directions
 - 10. Drainage sub-area boundaries
 - 11. Easements required
 - 12. Proposed curbs and gutters and gutter flow directions
 - 13. Proposed cross pans and flow directions
 - 14. Proposed piping and open drainage ways
 - 15. Flow calculations for 2, 5, and 100-year storm runoff
 - 16. Path of 100-year storm runoff flows
 - 17. Proposed inlet locations and inlet sizes
- B. Proposed pipes;
 - 1. Plan
 - 2. Size, lengths between manholes and type of pipe
- C. Proposed open channels;
 - 1. Plan
 - 2. Grades
 - 3. Typical cross section
- D. Proposed special structures (manholes, headwalls, inlets, trash gates, etc.)
Plan
- E. Permanent Stormwater Control Measure (PSCM) Plan(s)

Reason: Changed from Permanent Control Measure to Stormwater Control Measure for consistency within industry nomenclature.

▪ 161.02.07 Preliminary Landscape & Irrigation Plan Requirements:

B. Landscape Plans

All preliminary landscape plans shall include the following components prior to submitting to the Town for review:

1. Existing and proposed lighting elements including locations and details
2. Traffic and street signage locations
3. Existing and proposed above and below ground utilities and easements
4. Existing and proposed driveways, sidewalks, trails, access roads to oil and gas facilities, parking areas, etc. Label and specify surface materials and thickness. For parking lots, breakdown by types and number of vehicles
5. Existing and proposed structures and dimensions
6. Major site furnishings shall be identified (exterior signs, benches, water features, planters, walls, enclosures, bike racks, trash receptacles, playground equipment, sculptures, etc.) including locations
7. Fencing materials including locations and details
8. Plant material locations and quantities listed by type and symbol (deciduous trees, ornamental trees, evergreen trees, shrubs, perennials/grasses)
9. Existing vegetation to be retained or removed including sizes and species. Provide a plan for meeting tree retention and replacement requirements.
10. Show and label all site triangles at road intersections
11. Label and hatch all areas of mulch and indicate type and square footage requirements, if applicable
12. Linear footage of street frontage and chart indicating street tree requirements, if applicable
13. Identify drainage tracts, including stormwater control measures

Reason: Added so that drainage tracts are specifically identified because Parks does not review this.

C. Irrigation Plans

All preliminary irrigation plans shall include the following components prior to submitting to the Town for review:

1. Full irrigation layout page that encompasses the entire project limits.
2. Site specific conditions
3. System component legend with clear, consistent symbols
4. Symbols of other major components
5. Type and size of main irrigation system components
6. Backflow prevention unit location, size, and type and installed pursuant to applicable plumbing and local codes
7. The point of connection (POC) shall indicate the location and size of meter
8. Show and label locations to be irrigated with potable and non-potable water and identify the total square footage of each

- i. Show and label locations of proposed (low, moderate, high) hydro-zones and identify the total square footage of each
- ii. Total water budget and calculations by hydro-zone
- iii. The point of connection (POC) shall indicate the location and size of water tap and meter, existing and design water pressure, type of irrigation technique (such as drip, micro-spray, spray, rotor, underground, etc.) and other general information
- 9. Number of irrigation controllers
- 10. Show mainline and lateral piping
- ~~10.~~11. Identify drainage tracts, including stormwater control measures

Reason: Included requirement Parks does not review this. Allows stormwater to better identify review responsibility.

- 161.03.05 Storm Drainage Construction Requirements

Changed from Permanent (PCM) to Stormwater (SCM) Control Measures for consistency

- 161.03.09 Erosion Control Plan Details

All final construction plans shall include an Erosion Control Plan. Erosion Control Plan drawings will use the same base map as that for the Drainage Plan and shall include, at a minimum, the following information:

- A. A vicinity map with sufficient detail to identify drainage flow entering and leaving the development (flow directional arrows) and general drainage patterns.
- B. Major construction (i.e., development, irrigation ditches, existing detention facilities, culverts, storm sewers) along the path of drainage within the limits of construction and points of discharge to the MS4, if applicable.
- C. Location (if applicable) and identification of all structural and non-structural control measures to provide control of all potential pollutants, such as but not limited to sediment, construction site waste, trash, discarded building materials, concrete truck washout, chemicals, sanitary waste, and contaminated soils in the MS4.
- D. Specifications and details for installation and implementation of stormwater control measures. Appropriate control measures must be implemented prior to the start of construction activities, must control potential pollutants during each phase of construction, and must be continued through final stabilization. Appropriate structural control measures must be maintained in operational condition.
- E. A narrative description of non-structural control measures.
- F. A transition grading/drainage plan for construction activities that are phased or sequenced (initial, interim, and final). All residential developments shall require a transition-grading plan.
- G. Proposed topography at one- or two-foot contour intervals. The map should extend a minimum of 50-feet beyond the limits of construction.
- H. Location of soil and topsoil stockpiles.
- ~~F.~~I. Location of existing or proposed water courses including, but not limited to, groundwater springs, un-named drainages, and wetlands.
- G.J. Other information as required by the Town of Erie

Reason: Added additional requirements to meet CDPHE COR400000 permit requirements.

▪ 161.03.10 Final Landscape and Irrigation Plan Requirements

A. All Plans

The following information for final plan submittals is required in addition to the preliminary plan requirements.

All final landscape and irrigation plans shall include the following components prior to submitting to the Town for review.

1. Key map with matchlines clearly labeled on individual sheets
2. Project work limits

B. Final Landscape Plans

All final landscape plans shall include the following components prior to submitting to the Town for review:

1. Town of Erie Standard Landscape General Notes and Details
2. Plant materials list that specifies plant symbols, plant names (both botanical and common), legend of abbreviations, quantities, container or caliper sizes at time of installation, and root containment.
3. Materials legend that indicates symbols and material specified for mulch types, groundcovers, seeding and sod types.
4. Seed mix tables with common name, scientific name, variety, lbs. per acres and seeding rate
4. Details and legend for all site furnishings
5. Above and below ground planting pits, containers, and tree grate details
6. Exploded views of densely vegetated areas or areas of great detail
6. Vegetation and tree protection zones shall be included on all applicable landscape plans
7. For locations with proposed turf species include information on method of installation (sod, plugs, seeding rate)
8. Landscape requirements chart indicating compliance with the UDC.
9. Identify drainage tracts, including stormwater control measures

C. Final Irrigation Plans

All final irrigation plans shall include the following components prior to submitting to the Town for review:

1. Town of Erie Standard Irrigation General Notes and Details
2. Sprinkler/emitter legend including symbols, operating pressure (PSI), flow rate (GPM)
3. A watering schedule with run times and application rates
4. Static pressure and design pressure
5. Pressure loss calculations (on request)
6. Type of irrigation system controllers
7. Shut off and isolation valves
8. Zone valves with locations, type, size, flow, and number
9. Frequency of cycle for each control valve
10. Sleeve locations under hardscapes

~~10.11.~~ Identify drainage tracts, including stormwater control measures

Reason: Included requirement so that stormwater review knows areas that are their responsibility.

▪ 162.01.04 Preliminary Drainage Reports

A drainage report shall be submitted to the TOWN for review. All submitted reports should be clearly and cleanly reproduced. Photostat copies of charts, tables, nomographs, calculations, or any other reference material must be legible. Washed out or unreadable portions of the report are unacceptable and could warrant re-submittal of the report. ~~All reports shall be typed on 8-1/2" x 11" paper and bound. The drawings, figures, plates, and tables shall be bound with the report or included in a pocket attached to the report.~~ The report shall be prepared by or supervised by a professional engineer licensed in Colorado. The Phase III Drainage Report shall include documentation of operation and maintenance responsibility.

Reason: Deleted because everything is submitted electronically through eTRAKiT

▪ 162.01.04 Preliminary Drainage Reports

IV. DRAINAGE FACILITY DESIGN

A. General Concept

1. Discussion of the proposed drainage system and typical drainage patterns
2. Discussion of compliance with off-site runoff considerations
3. Discussion of the content of tables, charts, figures, plates, or drawings presented in the report
4. Discussion of the contents of referenced reports, studies, etc.

B. Specific Details

1. Discussion of drainage problems encountered and solutions at specific design points
2. Discussion of detention pond storage and outlet design
3. Discussion of maintenance and access aspects of the proposed design
4. Discussion of the necessity of easements and tracts for drainage purposes including the limitations of use
5. Discussion of the impacts on the downstream properties of flow release from the site
6. Discussion of the impact on existing floodplains of major drainageways and the requirements if altering the existing 100-year floodplain
- ~~6.7.~~ Stormwater Detention and Infiltration Design Data (SDI) Worksheet, or acceptable alternative calculations for upload to state Compliance Portal, demonstrating compliance with state law regarding maximum detention drain times <https://maperture.digitaldataservices.com/gvh/?viewer=cswdif>

Reason: This is a requirement per Senate Bill 15-212

▪ 162.01.04 Preliminary Drainage Reports

VII. APPENDICES

- A. Hydrologic Computations
 - 1. Land use assumptions regarding adjacent properties
 - 2. Major and minor storm runoff peaks at specific design points
 - 3. Historic and fully developed runoff peaks at specific design points
 - 4. Time of concentration and runoff coefficients for each basin and sub-basin
- B. Hydraulic Computations
 - 1. Existing and proposed culvert capacities
 - 2. Open channel typical sections, capacity, and depths
 - 3. Detention area, volume, and depth
 - 4. Downstream drainage system capacity to the major drainageway system
- C. Approval and/or Agreement Letter(s)
 - 1. Approval letter(s) from other jurisdictions, canal companies, pond owners, etc., (if required)
 - 2. All permits, licenses, etc., for any wetland removal or mitigation as required by the USACE.
- D. Design Standards and Long-term Operation and Maintenance
 - 1. Project Stormwater Quality Base Design Standards Form or project Stormwater Exclusion Form provided by the Planning and Development Public Works Department.
 - 2. Operations and Maintenance procedures-Plan that ensure long-term observation, maintenance, and operation of control measures. The documentation shall include frequencies for routine inspections and maintenance activities. The plan shall show the following:
 - a) Description of routine maintenance tasks.
 - b) Inspection frequency
 - c) Required tools
 - d) Landscaping requirements such as seed mix, original landscaping plan reference, how to treat weeds and unwanted vegetation.
 - e) Disposal requirements for trash and sediment removed during maintenance.
 - f) Diagram of key features of the water quality facility.
 - g) Inspection form
 - a)h) Any other information required for specific inspection and maintenance requirements for each facility.
 - 3. Documentation regarding easements or other legal means allowing for Town of Erie access of the control measure site for inspection purposes and for maintenance purposes should the responsible parties fail to ensure proper operation and maintenance.
 - 4. Permanent Stormwater Control Measures Maintenance Agreement, if applicable
 - 5. Narrative reference for all non-structural control measures.

Reason: Updated to reflect required form naming convention; updated to require a plan, not just procedures and to identify the requirements of the plan

SECTION 200 – Acceptance Procedures

- No changes

SECTION 300 – Site Work and Earthwork

- 332.00 Grading

Final grading shall be performed in such a manner as to provide proper drainage with a minimum of 0.50% slope on all concrete surfaces, minimum 1% slope on all asphalt surfaces, and minimum 2% slope on all grass-lined swales, landscape areas and all non-paved areas. In no case shall drainage from the project site be so altered or controlled as to result in damage, or the potential for damage, to adjacent property or to any portion of the work executed under the project from erosion or flooding.

Reason: Minimum slopes added to minimize the occurrence of ponding water on surfaces and attempt to ensure positive drainage.

SECTION 400 – Concrete Work

- No changes

SECTION 500 – Town Street Construction

- No changes

SECTION 600 – Water Supply Facilities

- 632.17 Corrosion Protection Systems

When resistivity is less than 1000 OHM-CM or where stray current corrosion is expected to be severe a cathodic protection system shall be installed with approval by the Town engineer. Cathodic protection could be either installation of impressed current systems or sacrificial anodes. Cathodic protection systems will be designed and installed on a specific project basis.

Reason: Added to provide clarity and guidance on cathodic protection.

- 633.07 Setting Valves and Hydrants

Hydrants shall be set with the bury line at the established finished grade and with hose nozzles parallel to the curb with the pumper nozzle facing the curb ~~and at least six inches (6") behind curbs or sidewalks.~~ Hydrants shall be set a minimum of 18 inches behind the back of curb or a minimum of 6 inches behind the back of sidewalk when the sidewalk is attached. Distance shall be measured from the pumper nozzle to the back of curb or sidewalk.

Reason: Modified to better protect the hydrant. In the event of a detached sidewalk, it creates separation from the curb drain as well. In the event of an attached sidewalk, it creates separation from the walk to work on either facility and ensure the walking path is not encroached upon.

- 641.00 General

Temporary water service line connections will not be permitted on Town water transmission mains. In general, temporary water service lines will not be permitted on Town water distribution mains, but these connections may be considered on a case-by-case basis subject to the approval of the Town Engineer. Any temporary connections that are permitted by the Town shall be removed in accordance with Section 600 herein.

Reason: Transmission mains are essential infrastructure for water supply to the whole Town and should have minimal connection points and only from distribution lines. Distribution lines may be tied in to for permanent services, but temporary services are discouraged.

- 641.02 Abandonments

All water lines, stubs, and service lines that were installed and will not be utilized for reasons including but not limited to a re-plat of the property or change in building configuration shall be abandoned at the main line.

Abandonment shall include excavating the main and removing any valves on the line to be abandoned and replacing them with a plug, cap, or blind flange. All water service line taps shall have the corporation stop and saddle removed from the main and a stainless-steel repair clamp shall be installed on the main line. All costs associated with this work shall be at the contractor's expense.

All abandonments shall be inspected by the Town and shall be found satisfactory subject to the approval of the Town Engineer.

Reason: This will establish formal requirements for instances the have occurred with development. This helps to prevent future maintenance issues with water quality and leaks in the system.

SECTION 700 – Sanitary Sewer Facilities

- 731.04 Abandonments

All sewer service lines that were installed and will not be utilized for reasons including but not limited to a re-plat of the property or change in building configuration shall be abandoned at the main. Abandonment shall include excavating the line and installing a concrete or PVC plug in the line, tap or wye. Abandonment of a sewer service line at the main must occur prior to final lift paving. All costs associated with this work shall be at the contractor's expense. All sewer lines that were installed and will not be used that tie directly into a manhole regardless of size shall be abandoned at the manhole. These shall be plugged with concrete inside the manhole.

All abandonments shall be inspected by the Town and shall be found satisfactory subject to the approval of the Town Engineer.

Reason: This will establish formal requirements for instances the have occurred with development. This helps to prevent future maintenance issues.

- 733.12 Testing and Inspection

Prior to Initial Acceptance the Contractor, at the Contractor's expense, will [provide a National Association of Sewer Service Companies \(NASSCO\) certified technician to](#) jet-vac the sewer and have the lines inspected with TV video equipment (a copy of the video tape and written report must be supplied to the Town). If, after visual inspection of the sewer system and video, the Town Engineer suspects that there is a problem, he may require that lamp, alignment, infiltration, exfiltration and deflection tests shall be completed by the Contractor at the Contractor's expense. The inspector shall visually check each manhole's interior for flaws, cracks, holes or other inadequacies that might affect the operation or watertight integrity of the manhole. Should any inadequacies be found, the Contractor shall make repairs deemed necessary by the Inspector to correct the problem.

Reason: When our Public Works team reviews videos, any issues from underground utilities are coded using NASSCO (National Association of Sewer Service Companies) terminology. This coding is a universal system within the US to clearly identify underground utilities so Public Works wants the contractors who video the utilities to be certified as well and use the same coding. This helps clarify issues and identify utilities to avoid any miscommunication and provide a clearer process for submitting and reviewing sanitary and storm videos

- 733.13 Testing and Inspection (Final Acceptance)

Prior to final acceptance the Contractor, at the Contractor' expense, will [provide a NASSCO certified technician to](#) jet-rod the sewer and have the lines inspected with TV video equipment (a copy of the video tape and written report must be supplied to the Town). If, after visual inspection of the sewer main, the Town Engineer suspects that there is a problem, he may require that alignment, infiltration, exfiltration and deflection tests be completed by the Contractor at the Contractor's expense.

Reason: When our Public Works team reviews videos, any issues from underground utilities are coded using NASSCO (National Association of Sewer Service Companies) terminology. This coding is a universal system within the US to clearly identify underground utilities so Public Works wants the contractors who video the utilities to be certified as well and use the same coding. This helps clarify issues and identify utilities to avoid any miscommunication and provide a clearer process for submitting and reviewing sanitary and storm videos.

SECTION 800 – Storm Drainage Facilities

- 843.10 Inspections

Initial Acceptance: Prior to initial acceptance the Contractor, at the Contractor's expense, will [provide a NASSCO certified technician to](#) jet-vac the storm sewer and have the lines inspected with TV video equipment (a copy of the video tape and written report must be supplied to the Town). If, after visual inspection of the storm sewer system and video, the Town Engineer suspects that there is a problem, he may require that further tests shall be completed by the Contractor at the Contractor's expense. Should any inadequacies be found, the Contractor shall make repairs deemed necessary to correct the problem.

Final Acceptance: Prior to final acceptance the Contractor, at the Contractor's expense, will [provide a NASSCO certified technician to](#) jet-vac the storm sewer and have the lines inspected with TV video equipment (a copy of the video tape and written report must be supplied to the Town). If, after visual inspection of the storm sewer system and video, the Town Engineer suspects that there is a problem, he may require that further tests shall be completed by the Contractor at the Contractor's expense. Should any inadequacies be found, the Contractor shall make repairs deemed necessary to correct the problem.

***Reason:** When our Public Works team reviews videos, any issues from underground utilities are coded using NASSCO (National Association of Sewer Service Companies) terminology. This coding is a universal system within the US to clearly identify underground utilities so Public Works wants the contractors who video the utilities to be certified as well and use the same coding. This helps clarify issues and identify utilities to avoid any miscommunication and provide a clearer process for submitting and reviewing sanitary and storm videos.*

SECTION 900 – Traffic Control Devices

- No changes

SECTION 1000 – Parks

- No changes

SECTION 1100 – Traffic Signals

- No changes

SECTION 1200 – Town of Erie Owned Landscape, Irrigation, Parks, Open Space & Trails

- Entire section updated – Best Management Practices

STANDARD DETAILS:

Curb/Gutter and Sidewalk Details

- No changes

Streets Details

- No changes

Sanitary Sewer Details

- SS17A: JA changed detail reference in the note section from SS19 to “SS17C” Edits sent from BB, approved by DP
- SS17B: JA changed detail reference in the note section from SS19 to “SS17C” Edits sent from BB, approved by DP

Storm Sewer Details

- No changes

Water Details

- W2: RG edited the elevation detail to say “2-2”x 90° brass street **elbows**” instead of “2-2”x 90° brass street **ells**”. Edits sent to RG from BB, approved by DP.

- W7: RG added a callout to the detail to say “Install solid concrete block beneath hydrant when using PVC pipe.” In the notes section, #5 was added to say “Hydrants shall be set a min of 18” behind back of curb and/or sidewalk. Distance shall be measured from the nut on the pumper nozzle to back of curb or sidewalk.” Edits sent to RG from BB, approved by DP. → JA further revised notes for #5 due to revision proposed by BB saying “5. Fire hydrants shall be set a min. Of 18" behind back of curb or a min. Of 6" back of sidewalk if there is an attached sidewalk. Distance shall be measured from pumper nozzle to the back of curb or sidewalk.”
- W12A: RG removed “with 1-7/8" dia hole” from the callout that says: “recessed composite/polymer cap type lid with 1-7/8" dia hole. Install lid at 2" min, 4" max above top back of curb for detached sidewalk or top back of sidewalk for attached sidewalk”. Edits sent to RG from BB, approved by DP.
- W13: RG added a callout labeling #9 (pack joint coupling) in the lower plan. And removed the pack joint coupling from the top diagram.
- W15: RG edited the profile view of the thrust blocks (not the plan view). Removed the concrete that was shown on top of the pipe and made the thrust block that was below the pipe to be smaller and to show it supporting the bend between the fasteners on either side of the pipe. Removed the “Bond Breaker (Typical)” callout, edited the callout that said “Rebars exposed to earth shall be coated with bituminous paint” to now say “Rebars shall be epoxy coated”. Edits sent to RG from CK, approved by DP.
- W19: GW removed tie rod bolts from the diagram. Edits sent to GW by CK, approved by DP
- W21: GW removed tie rods from diagram and removed the callout that said, “Tie rods (see restrained pipe detail if required)”. Edits sent to GW by BB, approved by DP.
- W27: RG removed the thrust block shown on top of the water main and removed the callout that said “Bondbreaker (Typ.)” Added a callout pointing to the rebar below the water main that said “Rebars shall be epoxy coated.” Edits sent to RG by CK, approved by DP.
- W32A: RG removed “Wire nut & gelpack” callouts and replaced with “3M direct bury splice kit. Wires tied in a knot” on the top diagram. RG also removed “Wire to be taped on each side of every joint” and “wire nut & gelpack tee connection outside of polywrap” and added “3M direct bury splice kit. All wires to be tied in a knot” to the lower diagram. Edits sent to RG by BB, approved by DP.
- W32B: RG replaced “standard meter box & lid brooks products no. 1-rt or approved equal” with “Glenn Mini test station or approved equal” to the tracer wire box at fire hydrant diagram. RG replaced “standard meter box & lid brooks products no. 1-rt or approved equal” with “Brooks Products No. 1-RT test station or approved equal” on the tracer wire box for area with no fire hydrant diagram. Edits sent to RG by BB, approved by DP.
- W38: RG removed “Base Diameter = 10-1/4” ” from “two-piece 6" shaft screw type. Cast iron valve box (base diameter=10-1/4)”. Note 7 was edited to say “7. If 2" operating nut is more than 6' below finished grade, a **valve** nut extender shall be installed to put the valve nut at an elevation of 4' below finished grade.” Note 7 previously said “7. If 2" operating nut is more than 6' below finished grade, a **vault** nut extender shall be installed to put the valve nut at an elevation of 4' below finished grade.” Edits sent to RG by BB, approved by DP.

Parks Details

- P19: RG edited the “Flow Sensor” callout to say “Rain Bird FS Series Flow Sensor”. Edits sent to RG by KK, approved by LB.
- P31: RG added to the notes section in the detail. Note 5 now reads “5. For systems now utilizing reclaimed water, sign verbiage shall state: “Attention: Irrigated with non-potable reclaimed water do not drink from sprinklers”. Edits sent to RG by KK, approved by LB.

- P32: GW created new detail page for median landscaping. Added drawings for a typical 16' median plan and typical 16' median section. Added callouts for both drawings detailing how medians should be landscaped, and a notes section with additional information. Edits sent to GW by KK, approved by LB.

Traffic Signal Details

- No changes

GENERAL NOTES:

Construction

- No Changes

Grading

- No Changes

Parks

- No changes

Roadway

- No changes

Sewer

- No changes

Storm Drain

- No changes

Water

- No changes

Non-Potable Water

- No changes