

**City of League City – 2025 General Design & Construction Standards
Brief Summary of Key Changes**

Why update the General Design and Construction Standards?

- First full overhaul since 2011 (only limited amendments in 2013, 2017, & 2018).
- Aligns chapter numbering, terminology, and digital submittal requirements.
- Supports newer infrastructure types (reclaimed water, large lift stations, trenchless construction) that were not—or only partially—addressed in the 2018 manual.
- Creates a clear distinction between new development and City CIP projects with the intention to allow Staff to better track CIP costs.
- The 2025 specifications turn what used to be narrative guidance into enforceable CSI sections with pay items, test methods, and digital deliverables.
- Expect more paperwork up front (submittals, meetings) but fewer mid-project clarifications related to CIP projects.
- Testing is more robust and better defined.
- Trenchless, HDPE, CIPP, and reclaimed-water appurtenances are now “pre-approved” methods, not special cases.
- Allows PMO to adopt uniform bid templates, submittal logs, and QC plans to these new sections which will help keep projects moving with a goal of avoiding pay overruns and the ability to provide a better estimating tool because Staff can now track specific work items.

Major Design Differences at a Glance

2018 Manual	2025 Manual
Single bound volume that mixed design rules with construction details	Two-part system: ❶ <i>Design Standards</i> and ❷ <i>Construction Standards & Details</i> .
No dedicated reuse (purple-pipe) criteria	NEW Chapter 600 – Reclaimed Water: sizing, separation, air-vac assemblies, meter/backflow specs, and purple-pipe color standards.
Material requirements scattered through text	Approved Products Lists and a clear submittal path for new products.
Booster-pump and lift-station guidance limited to references	New Sections: full design + electrical/control standards for sanitary-lift and water-booster stations, including wet-well sizing tables and odor-control triggers.
Limited trenchless guidance	Section 408 expands requirements (carrier-pipe specs, annular grouting, and tracing-wire rules, etc.).
Hand-formed concrete pavement allowed	Restricts hand-formed concrete pavement to roadways with less than 10k vpd / Slip-form required for MMP roadways
Mix of Hard Copy submittal requirements, lack of close-out parameters, and benchmarking standards	100% digital plan review, requires record drawings within 10 business days of punch-list completion, new benchmarking requirements
Traffic standards embedded; last major update 2013	Traffic chapter intentionally deferred; Staff anticipates stand-alone update in 2026 – Traffic will be renumbered to Section 900 at that time.

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Major Construction Differences at a Glance

Topic	2018 Manual	2025 Construction Standards	What the Change Means in the Field
Document structure	Single book that mingles design narrative, materials notes, and a handful of construction requirements in long numbered “ITEM” paragraphs.	Stand-alone CSI-formatted spec set (Div 00–41) with a detailed TOC and one section per activity or material.	Crews, suppliers, and inspectors can jump straight to a familiar spec number (e.g., 33 05 31 PVC Pipe) instead of paging through mixed text.
Front-end & admin	Minimal contract language; no standard forms for submittals, meetings, or warranties.	Division 00 placeholders for General Conditions and a full Division 01 suite (submittals, meetings, stored materials, record drawings, warranties, etc.) .	Clear paperwork expectations: shop-drawings route through 01 33 00, O&M manuals through 01 78 23, reducing RFI resubmittals.
Measurement & Payment	Rarely addressed; payment assumed in bid schedule.	Every technical section ends with a “Measurement and Payment” article spelling out subsidiary work and pay items.	Eliminates gray areas over what is incidental, helping contractors price work and inspectors enforce scope.
Materials & products	Materials buried inside chapters; limited mention of HDPE or specialty liners.	Dedicated spec sections for each pipe material, valves, HDPE, manholes, etc.	No more hunting through narrative text.
Testing & QA/QC	Hydrostatic, low-pressure air, visual, CCTV tests described in narrative form.	Stand-alone sections for Testing – each with equipment, procedures, pass/fail criteria, and report templates.	Inspectors now have pass/fail checklists; contractors know exactly how many hours, PSI, or footage they must demonstrate before acceptance.
Trenchless & rehab work	Little guidance other than “jacking/boring as approved.”	Multiple new sections (Auger Boring, Steel Casing, CIPP, Point Repair, Bypass Pumping).	Reduces special-provision write-ups.
Digital deliverables	TV inspection video required but format not specified.	Delivery, file naming, and rejection criteria are now spelled out.	Prevents incompatible formats and incomplete submittals at project close-out.

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Safety & temporary works	Erosion control, SWPPP, bypass pumping mentioned only in passing.	Full specs for Storm-Water Pollution Prevention, Erosion & Sediment Control, and detailed bypass pumping are now included.	Clear installation details and pay items; City gains enforceable environmental protection language.
Utility locating & tracer wire	Not addressed.	New tracer-wire, utility marker, and tape spec with QC requirements.	Reduces future locate problems and damage claims.
Warranty & close-out	One-paragraph “Warranty of Work” (one year) buried in each chapter.	Division 01 assigns a structured two-year warranty and defines close-out submittals (videos, O&M manuals, spare parts lists) .	City has standardized leverage for post-construction defects; contractors know the clock and deliverables.