

City of San Marcos Construction Requirements and Notes

Revised Date: 03-04-09

Plan Review and Revisions

1. All plans and revisions shall be reviewed by Development Services and Public Services.
2. The owner, contractor and representatives are responsible for complying with all local, state and federal laws rules and ordinances.
3. The City review does not authorize any violations of standards, ordinances or laws of the City of San Marcos. No code violations listed, drawn, or described in this plan, and/or otherwise installed, manufactured or built, are “approved” by the City of San Marcos.
4. The following city specifications supersede, as a minimum requirement, any and all non-“redline” comments, specifications, or details listed on the plan.
5. A copy of plans bearing a review seal from the city must be available on-site at all times.
6. Any changes or revisions to these plans must first be submitted to the City by the design professional for review and written authorization.
7. All changes or revised plans bearing a review seal from the city must be available on-site at all times.
8. City of San Marcos adopted codes with local amendments:
 - International Building Code 2003
 - International Energy Code 2003
 - International Plumbing Code 2003
 - National Electric Code 2005
 - International Mechanical Code 2003
 - International Fire Code 2003
 - International Fuel Gas Code 2003
 - NFPA 13 1994
 - San Marcos Land Development Code (as amended)

Accessory Permits

1. Neither the review of these plans, nor the issuance of a Building or Site Preparation Permit, authorizes accessory permits. The owner is responsible for completing the following accessory permits or activities: *(verify with the department listed below, even if depicted within this plan by the design professional)*:

- Addressing (Permit Center)
- Assignment of Building Numbers (Permit Center)
- Controlled Access Gates (Fire Marshal)
- Any Fire Protection System [fire alarm, sprinkler, hood system] (Fire Marshal)
- Any Storage Tanks (Fire Marshal)
- High Piled Combustible Stock (Fire Marshal)
- Any Sign, Sign Standard or Banner (Planning)
- Irrigation (Permit Center)
- Fence (Permit Center)
- On-Site Wastewater (Environmental Health)
- Backflow Prevention Devices (Permit Center)

General Construction Notes

1. Preconstruction Meeting – Contractor is responsible for scheduling a preconstruction meeting with City inspector(s) by contacting the Permit Center (512-805-2630) prior to any construction on site.
2. Site Requirements – The general contractor, owner, and subcontractors are responsible for maintaining a safe and clean work site.
3. Any reference in this section to water, wastewater, electric or other public utility is meant to refer to the utility of certification or Authority Having Jurisdiction.
4. Video - A video in Windows media or equivalent of the complete site conditions for all **Public Improvement Construction Projects** is required prior to construction. All videos for new utilities shall be completed with a City Inspector on site. The videos shall be submitted to the Engineer of Record for approval prior to submittal to the City. Provide two copies to the City of San Marcos.
5. Inspections – Inspections can be scheduled with the respective Departments by contacting them at:

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|--------------------------|--|
| Building Inspections | 512 353-7728 (automated inspection line) |
| Fire Marshal/Inspections | 512 393-8470 |
6. Trash - Approved trash containment must be provided for each lot under construction. Commercial solid waste haulers servicing construction sites must obtain a permit from Public Works and are subject to commercial solid waste hauler fees.
7. Open Burning - Burning is prohibited in the City limits.
8. Blasting - Blasting is prohibited in the City limits.
9. Construction Noise – Construction noise, declared a nuisance under city ordinance, is not permitted between 9:00 p.m. and 7:00 a.m. except under special permit.

10. Facilities – Maintained portable bathroom facilities must be provided with a minimum of one bathroom unit per one and two family residential lots. All construction sites are required to provide one bathroom unit per ten construction persons on the job.
11. Access – Temporary access driveways on the job site must comply with city standard. No mud, rock, or debris permitted on any roadway. The general contractor and/or owner are responsible for immediately removing any debris on roadways caused by construction.
12. Combustibles – An all-weather surfaced roadway and working fire hydrant(s) are required to be installed on property prior to the construction of combustible material. Road base alone is not acceptable.
13. Safety – The general contractor, subcontractors and the owner are responsible for maintaining a safe construction operation at all times. All federal OSHA and state standards, as well as local codes, shall be adhered to during the construction phase.
14. Address – The site, separate buildings, electrical disconnects, and/or temporary construction trailers must have an address visible from the street or roadway. The Building Permit and Site Development Permit must be posted facing the street or roadway (where practical). Permanent marker is not an approved marking device.
15. Building Construction Setback – Prior to requesting a foundation inspection by the Building Inspector, a Certificate of Acceptability (Form Survey) must be completed by a State Registered Land Surveyor validating building location to City of San Marcos setback requirements.
16. EPA – EPA or TCEQ permit is a separate permit and responsibility of the contractor.
17. A Flood Plain Elevation Certificate (where required) must be submitted to and approved by the Flood Plain Administrator before 'Certificate of Occupancy' will be issued.
18. Weekend and Holiday work - Weekend and Holiday work is not allowed within a Public Right of Way without prior approval and is limited to work not requiring City inspection.
19. If any geologic or manmade environmental feature is discovered during construction, notify Texas Commission on Environmental Quality and the City of San Marcos Development Services within 24 hours or as soon as practicable. The contractor is required to provide compliance documentation as required.
20. **SPECIAL APPROVAL REQUIRED** - for any tree larger than 9" in caliper to be removed from any project. Please refer to the LDC and technical manuals for related information.
21. All submittals for Public Improvements Construction Projects shall be submitted to the City (after approval by the Engineer of Record) in PDF format prior to construction.
22. Prior to City acceptance of the project, all graded and disturbed areas are to be re-vegetated in accordance with City of Austin requirements.

23. On the City's Engineering Department webpage, the following documents can be found: General Construction Notes, Standard Details, Standard Products List, Modifications to Austin Standard Specifications. (www.ci.san-marcos.tx.us/departments/engineering/index.htm)

24. All Material Testing shall follow the schedule below:

| CITY OF SAN MARCOS TESTING SCHEDULE | |
|--|-------------------------------|
| Description: | *Rate: |
| Soils: | |
| Standard Proctor – Trench Backfill | Per Material Source |
| Standard Proctor – Raw Subgrade | Per Material Source or Street |
| Densities – Trench Backfill** | Per 200 LF Pipe per lift |
| Densities – Cement Stabilizer Backfill | Per 200 LF Pipe |
| Densities – Raw Subgrade** | Per 100 LF Street per lift |
| Densities – Driveways | Per 5 Driveways |
| Base: | |
| Sieve Analysis | Per 300 LF Street |
| Atterbergs Limits | Per 300 LF Street |
| Modified Proctor | Per Material Change |
| Densities of Compacted Base** | Per 300 LF Street per lift |
| Wet Ball Mill Test | Per Material Source |
| Triaxial Test | Per Material Source |
| Hot-Mix Asphalt Concrete (HMAC): | |
| Extraction, Sieve Analysis | Per 500 Tons or Day |
| Lab Density & Stability | Per 500 Tons or Day |
| Theoretical Density (Rice Method) | Per 500 Tons or Day |
| Temperature – During Lay-Down | Continuous as Needed |
| Thickness – In Place | Per 300 LF Street |
| % Air Voids – In Place | Per 300 LF Street |
| % Theoretical Density – In Place | Per 300 LF Street |
| Concrete: | |
| (Unconfined Compression, 7, 14 & 28 Day) | |
| Curb and Gutter | Per 1000 LF C&G |
| Sidewalk | Per 4000 SF |
| Driveway | Per 2500 SF |
| Curb Inlets | Per 10 Inlets |
| Air, Slump & Compression – In Place | Per exposed structure |
| Slump & Compression – In Place | Per underground structure |

* The above testing rates are only anticipated guidelines. The City of San Marcos reserves the right to conduct additional testing at the City's discretion.

** Testing must be conducted during backfill operations

Public Rights-of-Way

1. Where there is a conflict between the drawings and the City of San Marcos specifications and details, the more stringent shall apply. In no case is a contractor or owner authorized to construct, build or develop in contrast with adopted City codes, standards or details.
2. DigTess (800-344-8377) must be used to locate all existing utilities for the contractor. Once locates are provided by the City, it is the contractor's responsibility to retain these locations. Repeat locates will be charged to the contractor.
3. The contractor shall verify the location and elevation of utilities prior to beginning construction. Conflicts with the proposed work should be brought to the attention of the Engineer of Record and the project inspector immediately.
4. The contractor shall not attempt to determine locations by scaling from plans. While every attempt has been made to prepare these plans to scale, the Engineer should be consulted if clarifications are needed.
5. Any portion of work, including traffic control, which lies in Texas Department of Transportation (TxDot) property or right of way, shall be permitted and approved by TxDot.
6. All required permits shall be secured by the owner or contractor from City of San Marcos and the Texas Department of Transportation.
7. Emergency Telephone Numbers (numbers may change - contractor should verify numbers)

| DigTess | 800-344-8377 |
|-----------------------|--------------------------|
| Police - Fire - EMS | 911 |
| TX Dot | 353-1061 |
| Century Telephone | 754-5223 |
| Southwestern Bell | 1-800-464-7928 |
| Gas Company | 1-800-427-7142 |
| Time Warner | 805-2555 |
| Grande | 800-218-5725 |
| University | 245-2108 and/or 245-2508 |
| Pedernales Electric | 888-554-4732 |
| Bluebonnet Electric | 800-949-4414 |
| SM Electric Utilities | 393-8313 |
| SM Water Utilities | 393-8010 |

8. The contractor is responsible for acquiring any temporary construction easements for the project. The details in the plan are intended as a minimum standard.
9. Location of existing lines is approximate. It shall be the contractor's responsibility to determine exact locations and depths of these lines and to repair any damages made as a result of construction.

10. The contractor shall be responsible for relocating any City of San Marcos water and wastewater utility lines and service taps where required. Contractor shall be responsible for the coordination and any required relocation of gas, cable, telephone, or electrical lines with the appropriate utility owner.
11. Contractor shall keep driveways open and accessible during construction. Underground utilities crossing commercial driveways shall be installed such that a minimum 10' traffic lane is kept open at all times. Spoilage material shall not be mounded more than 18" high adjacent to a driveway or intersection.
12. No construction operation relative to installation of utilities, including stockpiling of excavated materials, shall be permitted within the limits of existing pavements carrying traffic on state highways or city roads and streets unless specifically authorized in writing by the respective Authority Having Jurisdiction.
13. Contractor shall notify the Water Department (512-393-8010) at least 48 hours before connection with the city water system. A permit for any water tie-in and/or shutoff shall be picked up by the Contractor at the Water Department.
14. Contractor shall notify the Wastewater Department (512-393-8010) at least 48 hours before connection with the city wastewater system.
15. Contractor shall submit a road closure permit application at least 48 hours to the Public Services – Transportation Division before any lane or road closure.
16. The contractor shall develop and submit a traffic control plan, which will show both daytime and nighttime operations during various phases of construction. The plan must be approved by the Public Services – Transportation Division before construction begins. The contractor shall designate a person who will be accessible on a 24-hour basis and responsible for the maintenance of the traffic control devices. This 24 hour contact number must be posted visible to the street on the job site and provided to the Public Services – Transportation Division.
17. The contractor is responsible for furnishing the traffic control devices described in the plan and all costs associated with installation and maintenance.
18. When work is performed on private property or easements all lawn grass, shrubbery, flowers, site utilities (including irrigation systems), trees and fences in the way of the work shall be removed, protected and replaced to their original condition and position upon completion of the work. All property monuments disturbed during construction shall be restored by a Registered Professional Land Surveyor at the contractor's expense.
19. Any damage caused to existing pavement, curbs, sidewalks, ramps, or other objects shall be repaired by the contractor to the satisfaction of the City at the contractor's expense prior to the Certificate of Occupancy or Completion Certificate being issued.
20. No excavation of compacted base will be allowed without prior notification. Proper re-compaction procedures and testing will be required.

21. The Contractor must provide a Proof of Destination documents upon request by inspectors for trucks used to deliver or remove material or spoils from the job site.
22. All active/in-service valves, manholes, and other appurtenances must remain accessible to City crews AT ALL TIMES during construction. These appurtenances shall also be raised to final grade, if within the project limits.
23. All assets (including directional changes, valves, manholes, etc.) constructed within the City's right-of-way must be submitted to the City with GPS coordinates at the end of each project. GPS coordinates shall be on Texas State Plane South Central FIPS 4204 feet coordinate system.
24. The right-of-way shall be kept clean at all times. Daily sweeping may be required. A citation will be issued if the right-of-way is not kept clean.
25. The Owner shall coordinate temporary relocation of mailboxes with the San Marcos Postmaster. Final location shall be in accordance with the local post office requirements.

Erosion Control

1. It is unlawful for any general contractor, subcontractor or owner to permit, or cause to be permitted, erosion of material from a construction site.
2. Certain erosion control measures identified by the City of San Marcos are to be employed to prevent erosion; however, these are only minimum standards.
3. In the event of unusual site conditions, or weather related events, more stringent requirements may be required (on-site or off) to maintain erosion control.
4. The owner or their designee is responsible for all changes, upgrades and continued maintenance of all erosion control features at all times.
5. Erosion control measures will be inspected by the City of San Marcos prior to and during the construction process:

Engineering Inspections is responsible for the inspection of Public Improvements Construction Projects (PICP).

Building Inspections is responsible for the inspection of all residential and commercial construction.

6. All designs to prevent the erosion of soil and debris from the construction site or surrounding areas damaged by construction shall be maintained by the contractor during construction.
7. Site work, permitted by the Site Preparation Permit, cannot begin until erosion control measures are in place.

8. Storm drain inlets within 200 foot of any permitted construction area must be protected per detail provided by the city.
9. The contractor or owner must have a designated person responsible for monitoring erosion control measures to insure that all federal, state, & local laws and regulations are being complied with. This person shall be responsible for all required forms and documentation to meet regulations of the EPA, NPDES, and TPDES general permit.

Water Utility Notes

1. **Definitions**

Public utility line – Underground water line in a public right-of-way or easement and the line is owned and maintained by the City of San Marcos

Private utility line – Underground water line on private property and the line is owned and maintained by the property owner (usually will have private water hydrants)

Combination utility water Line – That part of a water line that is for use on private property for potable water supply and/or fire hydrants and/or fire suppression systems attached

Fire line – That portion of a water line that is for the specific use of a fire suppression system (this does not typically include water hydrants)

Domestic water line – That part of a water line that is for use on private property for potable water supply (usually to a building)

Irrigation water line – That part of a water line that is for use on private property for irrigation only

Transmission lines are generally lines conveying water from pumping facilities or reservoirs to distribution lines. Such lines may not be tapped for any purpose without special approval.

Distribution lines are generally lines providing local distribution of water and from which individual user service taps are made. Distribution lines include public utility lines, private utility lines, and combination utility lines.

Service lines are lines providing service from the distribution line to the point of service. Service lines include domestic water lines, irrigation water lines, and fire lines.

2. All taps to the city water system for private property shall be metered.
3. All taps larger than 2” or any Asbestos Cement (AC) taps require a stainless steel tapping sleeve.

4. A list of accepted metering devices can be obtained from the Water-Wastewater Utility Department. All metering devices shall be located on public right-of-way or easement.
5. All water utility lines leading to private property (except some authorized small domestic water lines) shall be provided with a testable back flow prevention device approved by the AWWA and the City.
6. The back flow prevention device must be located as close as possible to the public right-of-way on private property.
7. A backflow prevention device with a low-flow indicator is required on all dedicated fire lines.
8. Any bypass to a backflow prevention device must have a testable back flow prevention device at least equivalent to the primary line approved by the AWWA and the City.
9. It is the responsibility of the owner and contractor to verify the type and size of the back flow prevention device with the water purveyor, for the property served, prior to construction.
10. **Accepted Metering Devices** – a table showing the flow calculations must be included on the plans to validate the meter size.

IRRIGATION METERS:

¾" or 1" – Sensus SR II all brass meter with an Intelligent Communications Encoder (ICE) Touch Pad Reader

1 ½" or larger – Sensus Turbine meter with strainer and ICE Touch Pad Reader

COMMERCIAL DOMESTIC METERS:

2" or larger services – Sensus single register Compound meter with an ICE Touch Pad Reader that reads to the 100 gallon increment with an equal in size bypass and strainer.

1½" service - Sensus SR meter with strainer, ICE Touch Pad Reader with 1 ½" brass bypass.

⅝" x ¾" through 1" - Sensus SR II all brass meters with an ICE Touch Pad Reader are acceptable provided that the water flow requirements are within the optimum normal operating flow range of the meter.

UTILITY LINE\COMBO METERS:

Sensus Fire Service assemblies with bypass – size 8" or larger lines only with ICE Touch Pad Readers (TRPL)

RESIDENTIAL DOMESTIC METERS:

5/8 X 3/4 SENSUS SR II all brass meter (TYPICAL SIZE) with ICE Touch Pad Reader (TRPL)

11. **Accepted Utility Line Types** (verify use with Department of Engineering)

| Pipe Material | Use | Pipe Sizes | Classification |
|---------------|---------------------------------|------------|----------------|
| Copper Tubing | Service lines | 1" | Type K |
| PVC | Service lines | 2" – 3" | Schedule 80 |
| PVC | Distribution, service lines | 4" – 12" | C900 DR 14 |
| Ductile Iron | Fire hydrant lead, distribution | 6" | C115 CI 350 |
| Ductile Iron | Distribution line | 8" – 12" | C151 CI 350 |
| Ductile Iron | Transmission line | 16" – 60" | C151 CI 250 |
| PVC | Transmission line | 16" – 24" | C905 DR 18 |

12. **Accepted fire hydrants:**

AMERICAN FLOW CONTROL B84B
 CLOW
 MUELLER COMPANY, SUPR CENTURION 250

Note: All fire hydrant threads to meet City of San Marcos Specifications (2½" & 4½" exterior thread - NST) Private property fire hydrants shall be RED – Public fire hydrants shall be factory coated aluminum based silver paint. No pre-owned hydrants permitted.

13. **Accepted Gate Valves**

American Flow Control
 Mueller
 Clow
 Resilient – wedge gate valves only

14. All utility lines shall be tested after all appurtenances (hydrants, sampling ports, valves, etc.) are installed complete in place and located at final grade. All utility lines shall be tested from gate valve to gate valve at 200 psi for 10 minutes and @ 150 psi for 2 hours. A fire line dedicated for a fire protection system shall be tested @ 200 psi for 2 hrs.

15. **A licensed underground installer certified by the Texas Commission on Fire Protection must perform underground fire line installation (Fire Sprinkler System).** Most plumbers and utility contractors do not meet these criteria! Please verify before construction.

16. City to be given 48-hour notice (required) prior to all testing of utility lines. City inspection required for all utility lines.

Public

- All utility taps, line installations, extensions, or adaptations in the public right-of way, up to and including the metering device, for all Public Improvement Construction Projects and Site Preparation Projects will be inspected by the Engineering Department.

Private

- All utility taps, domestic water line installations, extensions, or adaptations on private property, beyond the meter (including back flow prevention) will be inspected by Building Inspections.
- Private utility lines utilized by any fire protection system (fire line), or utility combo line will be inspected by the Fire Marshals Office.
- All backflow prevention devices will be reviewed by the Backflow Prevention Manager (San Marcos Water Utility Department) prior to installation.

17. All backflow prevention devices must be tested by a State licensed/certified back flow prevention assembly tester. Test reports shall be on a form as prescribed by the Water Department.

18. All testers submitting inspection results must be registered prior to testing devices by the San Marcos Water Utility Department.

19. A copy of the test results are to be submitted to the City of San Marcos Water Dept. and the City Inspector prior to activation of water service.

20. A copy of the backflow test is to be attached to the back flow prevention device that was inspected and/or tested.

21. All water lines leading to private property must provide a bacteriological test to the inspector noted in the inspections section above. All bacteriological samplings must be certified within 20 days of project acceptance. On all dead end lines and lines not yet tied into a water system, an automatic flush valve shall be installed with an approved water meter. After the pressure tests and bacteriological samples have passed, the Contractor must give notice to the Water Department for activation of the device. If any lines are flushed prior to project acceptance, the City must be contacted prior to flushing.

22. Fire hydrants must be placed or moved to finished elevation after installation. Finished elevation is 18" to 24" from the center of the lowest connection to the adjacent grade.

23. Fire hydrants are required to be marked with a blue reflective marker in the roadway 6" to 10" off center of the roadway towards the hydrant.

24. City will not perform the tie-in of a public service line to a private line.

25. It is the responsibility of the owner or contractor to tie to the line provided by the city from the public easement to the private property line. It is the licensed plumber/utility contractor responsibility to maintain proper slope and connection of system to the public connection.

26. Fire hydrants capable of producing the required GPM (based on construction type) must be located within 500 foot of the most remote portion of the building using accessible surfaced roadway for measurement.

27. Fire hydrants must be operational prior to storing or raising combustible material on job site.
28. The tops of the valve stems shall be at least 18" and no more than 36" below finished grade. Note: City of San Marcos details for gate valve detail.
29. All iron pipe and fittings to be wrapped with at least 8 Mil Polyethylene Wrap.
30. All pipe bedding material and locator tape shall conform to City of San Marcos specifications.
31. All valves in a city right-of-way will be operated by city personnel only. The contractor may not operate any city owned valve. The general contractor will be fined if a water valve is operated without express written consent of the Water Utility, regardless of who operated the valve.
32. Only temporary water meters approved by the City of San Marcos authorized for use on any fire hydrant (public or private).
33. Temporary meters may be relocated from one hydrant to another only by Water-Waste/Water personnel.
34. A fine will be imposed on operators using fire hydrants without meters, with unapproved meters, or failing to use approved backflow prevention or air gap protection.
35. Thrust blocks are not permitted. All fittings shall be mechanically restrained. Bell joints shall be mechanically restrained in accordance with the Engineer of Record's specifications based on site conditions. A joint restraint table, sealed by the Engineer of Record must be submitted with each set of plans.
36. The service address must be posted and visible from the street prior to the installation of the meter.
37. Disinfection sample taps shall be installed at proper locations (not more than 1000-foot intervals) along public water lines.
38. All utility valves must be continuously accessible throughout the project.

Waste-water

1. **Required Equipment** – The following are the acceptable materials for the type of lines or connections shown:

Public Sewer Lines - SDR 26 in the city right of way (as a minimum)

Private Sewer Lines - Schedule 40 or SDR 26

Approved connections – Fernco 500 series, PVC

2. Inspection

Engineering Inspections is responsible for inspection of all Public Improvement Construction Projects and for all utility taps, line installations, extensions, or adaptations in public right-of way for all Site Preparation Projects.

- 4-psi minimum pressure test on lines
- Lines must be flushed immediately prior to the TV test
- TV test on all public lines (copy of video to Engineering Inspections)
- Mandrel test required 30 days after installation

Building Inspections is responsible for inspection of all residential and commercial construction.

- Low-pressure air test with 5 PSI on all lines
- Force mains; 5 psi over working pressure with minimum of 50 psi, for 1 hour

3. All sewer lines shall be tested after all appurtenances are located at final grade.
4. All sewer lines to be installed per Texas Commission on Environmental Quality specifications.
5. Any tap serving more than one lot (dual service) must be six inch minimum and must have clean-outs on each line located no less than six feet apart at the property line.
6. All manholes to be cored (not chiseled) and lined with a product from the Standard Products List.
7. All manholes, on public and private land, once complete in place shall be tested at 10HG Mercury vacuum for 3 minutes, prior to lining. All manholes installed on public and private land, are to be lined.
8. The City will not perform the tie-in of lines to privately owned and maintained lines or clean-outs. It is the licensed plumber/utility contractor responsibility to maintain proper slope, connection and drainage of system to the public connection.
9. See city specification sheet on all sewer/utility line installations for more details
10. Pipe stub-outs must be provided and located in manholes to facilitate future expansion

Driveways and Sidewalks

1. All sidewalks and driveway approaches will be inspected by the City of San Marcos.

The Engineering Inspections will inspect the following items:

- All Public Improvement Construction Projects
- Any extension or addition to a drive on existing property when permitted by the Engineering Department only.

Building Inspections will inspect the following:

- All Site Preparation Project driveway approaches and sidewalks
- All new residential construction **not** permitted by the Engineering Department only.

2. Meters, valves, or other obstructions are not permitted in sidewalks or driveways. All meters must be located on a public way or easement given by the owner (and legally recorded) of the property.
3. Meters and other utility obstructions must be relocated by and at the expense of the owner or contractor.
4. Driveway access grade at sidewalk cannot exceed 2%.
5. Engineering will inspect all new subdivision work inclusive of the street, curb, curb cut ramps to a public street, and driveway access installed during initial construction. Building Inspection will complete all sidewalk construction and driveway access in development "build-out" (less than three-plex) after release of subdivision by Engineering.
6. All sidewalks and driveways shall meet applicable TAS standard

Public Street Construction

1. All new street construction in public right of way and easements will be inspected by the Engineering Inspections.
2. All street lights shown on the approved construction plans shall be active prior to project acceptance. If street light service is to be in the City's name, contact San Marcos Electric Utility, (512) 393-8311.
3. Sub-grade shall be scarified to 6 inches below finished sub-grade elevation and compacted to required density.
4. Sub-grade must be at a minimum density of 95% and a maximum of 103.9%. Moisture content must be within 3 percentage points above or below optimum.
5. After the sub-grade has been shaped and graded to final grade then it shall be proof rolled with a City Inspector present, to locate unstable areas.

6. Flexible base material shall be placed in a minimum of 2 lifts not to exceed 6 inches in each compacted lift. All lifts shall be proof rolled during inspection by the City Inspector.
7. Flexible base must be at a minimum density of 100% and a maximum of 103.9%. Moisture content must be within 3 percentage points above or below optimum.
8. The final lift of base shall be smooth and in conformity with lines and grades shown on the plans. Prior to placing asphalt on the completed base, the base shall be cured to the extent directed by the Engineer of Record or their field representative.
9. All utility castings (new and existing) shall be raised to finished elevations. Backfill in streets for manholes shall be cement stabilized sand (2 sacks per cubic yard) and shall be a minimum of 12 inches thick.
10. Cutback Asphaltic material (Prime Coat) shall be applied to the completed base course and allowed to set 24 hours before paving the roadway. An Emulsified Asphalt Tack Coat can be used in lieu of the prime coat and/or placed on the prime coat.
11. Asphalt must be at a temperature between 120 C and 175 C when discharged from the mixer and compacted using steel-wheel rollers, vibratory rollers and pneumatic-tire rollers.
12. Asphalt shall be checked for correct depth and shall be overlapped at the longitudinal joint 1 to 2 inches. Asphalt shall be placed and compacted in 2 lifts if the designed thickness is 4 inches or more.
13. The contractor or his testing technician shall check the density of the compacted asphalt at regular intervals. Samples of the asphalt shall be taken as the asphalt leaves the hamper of the paving machine before compaction and cores shall be taken at these sampling locations. A minimum of 3 samples shall be taken daily unless the total volume is determined to be small enough to warrant taking only one sample.
14. See city specifications for concrete installation.
15. The contractor will be required to set Blue tops for subgrade and each additional lift on the centerline, at quarter points and along the curb lines or edge of pavement at maximum intervals of 50 feet (15 meters).

Electrical Service

1. The following applies throughout the city limits regardless of the electrical service provider.
2. In residences, the following additional rules apply:
 - (A) Separate dedicated branch circuits shall be provided for each refrigerator, dishwasher, and garbage disposal unit. These appliances shall be cord connected, and the garbage disposal shall be switched by a snap switch located above or adjacent to the kitchen sink. Where desired, the garbage disposal and dishwasher circuits may share a split-

wired receptacle, provided all other code conditions for this use are followed. The dishwasher circuit will have no other outlets on the circuit. The garbage disposal circuit may contain a lighting circuit not to exceed 300 volt amperes.

(B) Where provisions are made for a microwave oven, a separate branch circuit is required, and no other outlet will be on the circuit.

(C) No more than 12 outlets will be installed per circuit serving general lighting circuits. No more than six outlets will be installed on each GFCI circuit. Outlets serving the small appliance branch circuit for counter tops are limited to three outlets per circuit.

3. All services shall have a single disconnecting means on the exterior of the building served, in an approved location.

4. Every light pole ten feet above adjacent grade shall have an eight foot ground rod.

5. Labeling:

(A) Meter sockets shall be labeled with the business address, house number, apartment number, lot number or duplex number of the unit to which the meter socket is connected.

(B) At the time of final inspection, the meter sockets shall be labeled with permanent labels that are of such a quality that the readability of the labels will not be affected by the environment. A list of acceptable marking and labeling devices is available at the San Marcos Electrical Utility Department.

6. Sub-metering of electrical service is prohibited.

7. The service mast shall have at least two points of attachment to the building. One point of attachment must be within 12 inches of the service equipment. The service equipment may not be used to meet this requirement.

8. All electric disconnecting means shall be accessible.

9. Contact the local service provider for information on their specific installation requirements

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| San Marcos Electric Utility | 512-393-8300 |
| Pedernales Electric Cooperative | 888-554-4732 #7525 |
| Bluebonnet Electric Cooperative | 800-842-7708 |

(Ask for Lockhart engineering dept.)

NOTE: This document is not meant or designed to be an all inclusive document. The function of this 'requirements' document is to provide information on issues identified by the city inspection staff based on daily field operations and common issues. It is the intent of this document to facilitate the construction process in common overlapping areas between city departments and private contractors. In all cases, contractors,

subcontractors and owners are responsible for knowing and utilizing the state, federal, or city codes and laws where applicable. No code violations are “approved”. City of San Marcos signed or reviewed plans are not authorization to violate codes, laws, or ordinances. A copy of plans bearing a seal from Building Inspections is required to be available on-site at all times. Any changes or revisions to these plans must first be submitted to the City by the design professional for review and written authorization. A review seal from the city must be affixed to these revised plans and they must be available on-site at all times.