SAN JOSE
CAPITAL OF SILICON VALLEY

PUBLIC IMPROVEMENT PLANS

Department of Public Works, Development Services
200 East Santa Clara Street, San Jose, CA 95113
http://www.sanjoseca.gov/pwdev
(408) 535-3555

Applicability

Anyone constructing public improvements in the public right-of-way is required to prepare a detailed plan showing the existing improvements and any proposed improvements to be constructed.

If the only improvements to be constructed include sanitary/storm sewer laterals, or one driveway for a single-family detached residence, or private utilities, then this information does not apply. Other permits are issued to permit this type of work.

Approval of public improvement plans requires that the applicant has secured approval of all necessary Planning Department permits.

Improvement plans prepared for the construction of public improvements, in support of private development, shall be completed at no cost to the City. All City services required for their review, approval and inspection shall be paid for by cost recovery fees collected from the applicant.

- The plans must be adequate to bid and build the improvements at the correct location and elevation
- The plans must be suitable for use by people who are not technically oriented.
- The plans must be legible, not cluttered with minor or extraneous notes/items.
- The plans must be complete, signed, sealed and ready for construction. Plans cannot be reviewed at the 30%, 65%, or 90% stages. Incomplete plans will be returned for completion, prior to any review taking place.

Permit Type Summary

Depending on the type and extent of Public Improvements proposed, and if the improvements are being constructed in support of a subdivision of land, the plans will fall into one of the following 3 categories.

Minor Improvement Plan – A minor improvement project is defined as minor construction, valued less than or equal to $100,000, that does not significantly change the line and grade of streets, does not change the line and grade of sewers and involves the installation and/or modification of the following facilities:

- Installation of Storm and Sanitary Sewer Laterals
- Driveway Construction
- Closure of Driveways
- Installation of Handicap Ramps
- Replacement of Curb and Gutter
- Installation of Sidewalk
- Relocation of Storm Inlets due to new driveway construction
- Installation of Sewer Manholes
- Installation Electroliers
- Installation of Street Trees

Major Improvement Plan – A major improvement project is defined as all construction above and beyond the limitations of a minor improvement permit. A major improvement plan must be designed and prepared by a registered Civil Engineer.

Tract Improvement Plan – A Tract improvement plan is used to construct public improvements in support of Tract subdivisions. Tract subdivisions are subdivisions of land, which create 5 or more lots/units. If the project creates 2 – 4 lots/units, a minor or major improvement plan shall be used for the

construction of the public improvements. A Tract improvement plan must be designed and prepared by a registered Civil Engineer.

The table below is provided as a guide to the different types of improvement plans:

Requirements	Minor Improvement Plan	Major Improvement Plan	Tract Improvement Plan
Must be prepared by Registered Civil Engineer		✓	✓
No restrictions on who can prepare plan	✓		
Originals can be submitted on bond or vellum	✓	✓	✓
Originals can be submitted as PDF (SjePlans)	✓	✓	✓
Approval requires execution of a Construction Agreement including Bonds		✓	✓
Approval requires posting of a Certificate of Deposit to ensure completion of improvements	✓	✓	
Approval requires proof of Insurance on file with the City's Risk Manager	✓	✓	✓
Plan and Contract Approved by PW Director		✓	✓
Plan and Permit Approved by Project Engineer	✓		

Project Review Procedure

Submission Methods:

1) **Online Application for Public Improvement Permits:** Visit the following site to apply for your Public Improvement permit online: www.sjpermits.org. You will need to have an online account which you can create on the website. You will also need to attach all required documents as attachments during your online application; or

   When applying online you will have the option to create both the permit application and to initiate a San Jose ePlan project. If you initiate an ePlan project you will receive a separate invitation email with log-in information and submission instructions for the project. The benefit of submitting via SJePlans is that the platform integrates with the City's permitting system and provides one place for you to upload plans digitally, receive plan check comments, monitor project status, and obtain copies of issued permits. Please visit our SJePlans Resources page for more information.

   For ePlan submissions you will upload all required documents directly to the SJePlan Project. All other submissions you will need to attach all required documents as attachments during your online application.

   For a list of required ePlans and Attachments for each type of online Public Improvement Permit Application refer to Attachment A

   Schedule an Appointment with Staff (Optional): Prior to or after you have made the online application submittal you may wish to contact the Project Engineer or team member assigned to your project to schedule an intake meeting. This meeting will help the applicant determine what

documents are required for a full submittal, what documents were missing from the online submittal or the required corrections of the online submitted documents prior to being accepted for review. The Project team will also be able to provide the invoice for payment at the meeting, if not provided previously. If the meeting is scheduled prior to making the submittal, the online application must be made prior to the meeting.

2) **Standard Application - Schedule an Appointment with Staff**

Generally, most projects proposing public improvements have been through the Planning Permit process, at which time a Public Works Development Review Team was assigned to the Project. The Public Works Development Review Team will be your single point of contact for all Public Works permits related to this project. If you already know the names of the Public Works Development Review Team members, please contact them directly to schedule an appointment for plan submittal. If you are unsure of the Public Works Development Review Team assigned to your project, please contact staff at (408) 535-7802 with your Planning Permit number, and we will look up the name of the Project Engineer assigned to your project.

However, if your project did not require a Planning Permit, a Project Engineer will need to be assigned to your project. Please email a copy of your completed **APPLICATION FOR PUBLIC STREET IMPROVEMENT PERMIT/CONTRACT** form, and a map showing the project's location directly to the Public Works Counter on the 1st Floor of City Hall or by emailing pwgeneralinfo@sanjoseca.gov. A Project Engineer will be assigned to your project and will then call you to schedule an appointment for submittal.

Submittal Instructions

Initial Submittal

When submitting a Standard Application for Public Improvement Plans, include the following:

1) **Plans Prepared In Accordance With Attachment B** – Plans should follow requirements set forth in Attachment B of this document. Plan coversheet should include "Standard Improvement Plan Notes" as listed in Attachment C of this document. See Project Engineer for number of plans to submit.

2) **Transmittal** – On the transmittal letter, indicate why the plan is being submitted … such as, is it a voluntary public improvement or is it to satisfy planning permit conditions.

3) **Permit Application** – include a completed "APPLICATION FOR PUBLIC STREET IMPROVEMENT PERMIT/CONTRACT" application with your submittal. Provide the name, address, and phone number of the permittee, civil engineer and main contact. Be sure to include the appropriate City Business License Numbers for any businesses listed in the application.

4) **Engineer's Estimate** – using the City's Excel spreadsheet template (see website), prepare an engineer's estimate showing unit prices, quantity and extensions for all construction items.

5) **Separate Instrument Dedication** – If the project is conditioned to dedicate easement for public use (i.e. Public Street, Public Service Easement, etc.) and a Tract or Parcel Map is not being process the project must include the following:
   - Legal Description of the easement being granted.
   - Plat map to accompany the legal description illustrating the easement being granted.
   - Easement closure calculations

- Title Report of the property where the easement is being dedicated
- Record documents referenced in the Plat and Legal for review.

These documents are required to be prepared by a Licensed Surveyor or Civil Engineer that obtained that obtained their Professional Engineers License prior to January 1, 1982.

6) **Plan Review Fee** – An initial plan review fee will be provided once the application has been submitted and reviewed by City staff. The fees will be provided and will be required to be paid prior to the application being deemed complete. The initial review fee will be either $1,000 or 50% of the calculated Engineering and Inspection (E&I) fee, whichever is greater. The E&I fee is calculated by applying the cost of construction from the engineer's estimate to the current fee schedule. Please see the fee schedule titled "Public Works Permit Fees" for the current fee amount

7) **Additional Plans** – If the project includes any of the following, additional plans must be prepared and submitted. See Project Engineer for number of plans to submit.
   - **Subdivision maps (Parcel or Tract)** – if the improvement plan is in support of a subdivision of land, a map must be prepared and submitted by a Licensed Land Surveyor or Registered Civil Engineer qualified to prepare maps.
   - **Landscaping in the public right-of-way** – plan prepared by a licensed Landscape Architect
   - **Street Light construction or modification** – the applicant can either hire a private consultant to prepare a streetlight design or pay the City a fee to design the streetlighting system.
   - **Traffic Signal construction or modification** – the applicant can either hire a private consultant to prepare the Traffic Signal plans or pay the City a fee to prepare the plans.
   - **Private Streets** – if the project proposes construction of a residential Common Interest Development with a Homeowner's Association, the private streets will require a "Private Street" permit. See the "Private Street" handout for more information.

Upon receipt, City staff will review the plans for completeness.

- If the initial submittal is complete, staff will review the plans and return comments to the applicant or the applicant's representative. Any corrections or clarifications that are required shall be made. The plans and City checkprints will be resubmitted to the City for further review. Once the plans are ready for approval, the applicant is ready to make the final submittal.

- If the initial submittal is incomplete (incomplete design, missing plans, etc) staff will return the plans to the applicant for completion prior to any review taking place. This can potentially delay the issuance of a Public Works Clearance, which is required to get a building permit.

Final Submittal

Upon final submittal for all Application Types (online or standard), the applicant shall satisfy all of the following conditions prior to project approval:

1) **Original Improvement Plans** – submit either a PDF or original plans together with all City checkprints. The plans shall be signed and stamped by a Registered Civil Engineer (Majors and Tracts). Digital stamps and electronic or wet signatures are acceptable.

2) **Additional Plans / Map** – Any other plans (Landscaping, Private Streets, Traffic Signal, etc.) and/or a Parcel/Tract Map necessary for this project must also be complete and ready for approval. Maps require supporting documentation including, but not limited to: Current Title Report; Subdivision Guarantee; and County Tax Letter.

3) **Construction Agreement or Permit** – Execute and notarize the Construction Agreement and bonds or permit prepared by Public Works staff. Please include the corporate resolution of signature authority if the person signing the agreement is signing on behalf of a partnership, corporation, etc.

4) **Surety** – All projects require some form of surety as required by the Municipal Code.

   - **Minor Permits** – Requires a security deposit of either a Certificate of Deposit (CD), Letter of Credit or Cash Deposit for the total value of the proposed improvements.
   - **Major Permits** – Requires the execution of a City-Private Developer Agreements which require bonds for 225% of the total value of the proposed improvements. This includes a performance bond for the construction of the work (100%); A payment bond to secure payment to the contractors for the work performed (100%); and a one-year warranty bond that is valued at 25% of the value of the proposed improvement. This type of agreement is also required to provide clean-up / completion deposit per the San Jose Municipal Code. This security deposit is typically either a CD or Letter or Credit.
   - **Tract Permits** – Requires the execution of Subdivision (Tract) Agreements. This requires bonds for 225% of the total value of the proposed improvements for performance of the work, payment to the contractors and a one-year warranty period similar to Major Permits.

5) **Certificate of Insurance** – Submit a certificate of insurance to the office of the Risk Manager which meets City requirements. This insurance must be maintained for the duration of the project. See form titled “Insurance Requirements”.

6) **Fees** – All fees, as shown in the permit or Construction Agreement, are to be paid prior to approval.

Other Requirements

Contract/Permit Extension – The term of a valid Contract/Permit can be extended at the discretion of the PW Development Services Project Engineer. The required fee is listed in the “Development Permit Fees” fee schedule.

APPROVED PLAN REVISIONS AND FINAL ACCEPTANCE

Revisions to an Approved Plan

An improvement plan becomes a public record when approved by the City. Prior to approval it is the property of the engineer/architect/etc. Once a plan becomes public record, any changes require City approval and are to be done on the original drawing.

Revisions to plans may be required for various reasons. The design change should be based on recommendations made by the developer's engineer and must be approved by the City prior to revising the original plans. All changes to the original plans must be made by the applicant's engineer and initialed by the City for approval.

The developer's engineer (on behalf of the applicant) will either discuss the change with the Public Works Project Engineer and/or submit a checkprint showing the proposed change. If the proposed change is acceptable, the original drawing will be released from Public Works, Development Services (City Hall, 3rd Floor) to the engineer.

When making changes to the original, cross out or shade the old so that it is still legible and add the new, together with a revision number inside a diamond symbol. Return the changed plan to the Project Engineer in Public Works. Once the Project Engineer has approved the changes, the revised sheet(s) can be duplicated. The engineer should provide the City with copies of the revised sheet(s) and return the original plan, once he has made copies for his client's use.

Please Note: A plan revision fee will be due with each revision to the approved plan. The fee will be due prior to the approval of the revision. Submit plan revision fee according to the current "Public Works Permit Fees" fee schedule.

Final Acceptance

When the project inspector and the developer agree that all improvements have been completed and the original plans have been revised to reflect any field changes, the developer is required to request a final inspection. If any deficiencies are identified during the final inspection, a "punch list" is prepared. This list delineates any possible remaining work to be completed. Once the punch list is complete, the City files a final Notice of Completion and Acceptance.

Once the Notice of Completion and Acceptance is signed and recorded at the County's Recorders Office, the City will authorize release of the surety used for the project (bonds, CD, or cashier's check). If a Defective Materials and Workmanship bond was required, it will be held for one year to guarantee repair of any defective work within the public right-of-way

ePlan and Online Application Attachment Requirements

Note: If your application was started as an ePlan Application, submit the plans and documents in the indicated folder. If you did not initiate this project as an ePlan application, submit the documents indicated in the "Online Application Only" section during the "Attachments" section of the online application. Please note that the City reserves the right to convert the project from being Online only to an ePlan application during the project intake review.

ePlan Application: Refer to the City of San Jose SJePlans Resources page for more information.

Plans Folder – Uploaded as single sheets per the Public Works file naming convention.

- Civil Improvement Plan
- Traffic Signal Plans (if applicable)
- Landscape Plans (if applicable)
- Structural Plans (if applicable)

Misc Plans

- **Lighting Level Analysis** - If applicable

Documents

- **ePlan Information Form**
- **Application for Public Street Improvement Permit/Contract** (filled in from site information down)
- **Engineer Estimate**
- **Public Street Checklist**
- **Contractor Insurance** – if available
- **Separate Instrument Plat & Legal (Combined PDF)** – if applicable
- **Separate Instrument Supporting Documents (Combined PDF or separate)** – If applicable
- **Structural Calculations** - If applicable
- **Lighting Level Analysis** - If applicable
- **Signal Pole Loading calculation** – If applicable

ePlan and Online Application Attachment Requirements

Online Application Only

When attaching these documents during the Add Application stage or using the "Add Attachments" on the My Permit Detail page of your permit application on SJPermits, make sure to select the following Attachment Type indicated after the dash. Each document will be required to provide a description of the uploaded attachment.

- **Civil Improvement Plan** (single combined PDF) – Improvement Plan
- **Traffic Signal Plans** (single combined - if applicable) – Improvement Plan
- **Landscape Plans** (single combined - if applicable) – Improvement Plan
- **Structural Plans** (single combined - if applicable) – Improvement Plan
- **Lighting Level Analysis** (if applicable) – Supporting Documents
- **Application for Public Street Improvement Permit/Contract** – Miscellaneous Documents
- **Engineer Estimate** – Miscellaneous Documents
- **Public Street Checklist** – Miscellaneous Documents
- **Contractor Insurance** – Miscellaneous Documents
- **Separate Instrument Plat & Legal** – Miscellaneous Documents
- **Separate Instrument Supporting Documents** – Supporting Documents
- **Structural Calculations** – Miscellaneous Documents
- **Lighting Level Analysis** – Plans Other
- **Signal Pole Loading calculation** – Miscellaneous Documents

REQUIREMENTS FOR PREPARATION OF IMPROVEMENT PLANS

Improvement plans are to be prepared in conformance with City Standard details. Public Works has prepared a standard improvement plan sheet for private development projects. This plan sheet can be obtained in CAD format from Development Services website at https://www.sanjoseca.gov/devresources

Plans should....

1) Be prepared on 24" x 36" bond or PDF (SJePlans submittal).

2) Include a location map and align the north arrow on both the plan and location map to North and include the text word "North" or "N" on the north arrow.

3) Show all legend items as represented on the standard plan sheet for private development projects, as mentioned above.

4) Include within the title block the scale, engineer's name, address, phone number and registration expiration date.

5) Not show any on-site items on the plan unless it is a public facility maintained by the City. In rare cases, it may be necessary to show portions of the on-site sanitary or storm drainage system which can be indicated by faint dashes or other means to clearly distinguish on-site private improvements from the public improvements.

6) Include a surface improvement sheet, preferably on one sheet where practical
   - Dimensions for street and right-of-way widths
   - Lot numbers
   - Street names
   - North arrow
   - Reference to existing tract(s) along boundary of tracts
   - Scale: 1"=100' min. (1"=60' preferred); depends on size of project
   - Existing utility poles and other utility structures
   - Existing contours and spot elevations (lightly screened for hillside projects and perimeter contours for flat projects)
   - Electroliers (Street Lights)
   - Limit of pavement conforms, existing edge of pavement
   - Concrete work (curb, gutter, sidewalk, handicap ramps, driveways, etc)
   - Curb grades at curb returns and all changes of grade
   - Drainage Inlets
   - Direction of flow in gutter with longitudinal grade
   - Fire Hydrants
   - Monuments
   - Public Easements which contain surface improvements

7) Show existing conditions affecting the project site such as:
   - Adjacent public improvements
   - Electroliers/Street lights within 200 feet of project
   - Street trees

REQUIREMENTS FOR PREPARATION OF IMPROVEMENT PLANS

- Dimensions from property line to curb and from curb to centerline
- All items listed under previous section (Section 6 – Surface Improvement Sheet)

8) Show Plan/Profile sheets for any sewer extensions. On simple projects, it may be added to the first sheet. Otherwise, prepare plan/profile sheets similar in layout to sheet 1 at a scale of 1" = 40' horizontal and 1" = 2 feet or 4 feet vertical. Draw the profile directly below the plan view. The plan and profile views should contain the following information:

Plan View	Profile View
• Property line • Face of curb, sidewalk, driveways • Centerline of street • Dimensions for curb to centerline and curb to property line • Centerline of sewer(s) • Horizontal curve data at face of curb and property line • Street light location and circuitry • Manholes • Laterals • Inlets • Existing utilities • Street trees • Monuments • TC grades to nearest 0.01' at all BC's, EC's, grade breaks, high points, low points, BVC's and EVC's	• Proposed surface at top of curb or centerline • Vertical curve data • Existing surface (only if there is a significant change, 2 feet of cut or any fill, or if it is critical to the design) • Manholes, including inverts and any special circumstances such as "drops" • Flowline for storm and sanitary pipes • Entire pipe for waterlines in San Jose Municipal Water service area • Grades and slopes of surface improvements and pipes • Critical or conflict areas

9) Large-scale developments shall include a plan sheet showing the hydraulic calculations and drainage areas used for storm sewer main design.

10) Include all "Standard Notes" listed in Attachment B of this document.

STANDARD IMPROVEMENT PLAN NOTES

NOTE: This drawing is approved subject to

1. Approval of these plans does not release the owner of the responsibility for the correction of mistakes, errors, or omissions contained therein. If during the course of construction of the improvements, public interest requires a modification of or a departure from the city specifications or these improvement plans, the City Engineer shall have the authority to require such modification or departure and to specify the manner in which the same is to be made.

2. All work shall be done in accordance with the 1992 Standard Specifications for Public Works construction and the 1992 Standard Details and these special provisions and subsequent addenda for Public Works construction as adopted by the City Council. A digital copy of the Specifications and Details is available at: https://www.sanjoseca.gov/specs-details

3. Contractor shall notify the Project Inspector at least 48 hours prior to starting work.

4. All Contractors will be responsible for the verification of locations of all existing utilities in the field. All Contractors shall call U.S.A. (CA. 1-800-227-2600) 48 hours before digging and obtain an identification number (Section 4210.1 of the government code).

5. Compact subgrade for sidewalk and similar structures to 90% minimum relative density in lieu of the 95% required in section 21-1.05 of the Standard Specifications. Compact subgrade for curb, gutter and driveways to 95%. Relative compaction and moisture content of all native materials shall be determined in accordance with CAL Tests 216 and 231.

6. All asphalt concrete mix shall conform to the City of San Jose Section 39 Superpave Asphalt Concrete Specifications and these special provisions. The asphalt concrete shall be ½" Hot Mix Asphalt (Type F) for arterial and collector streets and ½" Hot Mix Asphalt (Type H) for residential streets and conforms, unless otherwise authorized by the City Engineer. The contractor shall take one (1) 4-inch or 6-inch diameter density core for every 250 tons of HMA from random locations per California Test 375. Contractor shall take density cores in the City's presence and backfill and compact holes with authorized material. The City will test the core from each 250 tons of HMA. Field core density shall be between 92-97 percent of theoretical maximum density. Any field core density above 97 and below 92 percent shall be removed and replaced by the contractor at no cost to the City. The reduce payment factors tables shown in Section 39-2.01A(4)(i)(ii) does not apply. Current City of San Jose Section 39 Superpave Asphalt Concrete Specification is available at: https://www.sanjoseca.gov/specs-details.

7. Asphalt Coating:

   A. Apply Tack Coat (aka paint binder) to surfaces designated in, and in accordance with, section 39-4.02 of the 1988 Caltrans Standard Specifications. The asphaltic emulsion used shall be SS-1H.
   B. Prime coat all aggregate base surfaces prior to placing A.C. paving unless the total thickness of A.C. paving is 0.5 foot or greater. Prime coat all aggregate base surfaces that will be subjected to traffic prior to paving.

STANDARD IMPROVEMENT PLAN NOTES

C. Construct prime coat in accordance with section 39-4.02 of the 1992 Caltrans Standard Specification, with the exception that SS-1H asphaltic emulsion shall be used in lieu of liquid asphalt. Prime Coat not required for full depth AC alternate.

8. All irrigation lines or other privately-owned underground lines that require relocation as determined by the City Engineer shall be at the sole expense of the developer.

9. Temporary street signs to be installed at all intersections before units are occupied.

10. As a water conservation measure, use of fire hydrant water or any other source of potable water for construction purposes is prohibited. Recycled water is available at multiple locations across the City. Certification is required by South Bay Water Recycling prior to receiving a recycled water meter. For more information, please call Lyle Frohman at (408) 794-6805.

11. Hazardous Materials:
    Upon discovery of hazardous material, the contractor shall promptly notify the City in writing of any:

    A. Material that the contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety code, which is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.

    B. Subsurface or latent physical conditions at the site differing from those indicated.

    C. Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the contract. The developer's agent shall promptly investigate the suspected condition and, as necessary, initiate further analysis of the problem. If remediation is required, a remediation plan will be submitted to the Director of Public Works for review by Environmental Management and, upon approval by the Director, be implemented at developer's sole expense.

12. In the event that Human Remains and/or Cultural Materials are found, all project-related construction should cease within a 100-foot radius. The contractor shall, pursuant to section 7050.5 of the Health and Safety code, and section 5097.94 of the Public Resources Code of the State of California, notify the Santa Clara County Coroner immediately.

13. Contractor shall provide video inspection of all storm and sanitary sewer mains. Video inspection of all mains shall be performed after all testing has been completed.

14. Contractor shall remove all U.S.A markings as soon as they are no longer needed. Only chalk paint shall be used in the Redevelopment Area (bounded by Julian Street and Highway 280, and between Highway 87 and Fourth Street). Removal of paint shall be by high water pressure method only.

15. Storm Drain Inlets:

STANDARD IMPROVEMENT PLAN NOTES

A. Stenciling Location: Contractor shall stencil all storm drain inlets and catch basins with the "NO DUMPING - FLOWS TO NEIGHBORHOOD CREEK" stencil. The "No Dumping" message should be applied to both the top of the curb and the face of the curb next to the storm drain inlet, preferably on the left side. If this is not feasible, place the message in the street in front of the inlet.
B. Previously Marked Inlets: Inlets that have already been labeled with permanent plastic "No Dumping" markers do not need stenciling. If the inlet has been previously stenciled, paint over the old paint and apply a fresh stencil.
C. Colors and Materials: Use white traffic striping paint for the background and blue traffic striping paint for the lettering. Traffic striping paint can be purchased at commercial paint retailers or through specialty traffic control or construction suppliers. **The use of ordinary paint for storm drain marking is not allowed.** The stencils may be obtained, at no charge, through the Environmental Service Department. Contact Amber Schat or Patrick Hansen at 408-945-3000.

16. Installation or removal of Street Trees requires a permit from the Department of Transportation. The City Arborist will specify species. Contact the City Arborist by email at developmentproject@sanjoseca.gov with your project information to obtain a Tree Permit.

17. Sanitary and Storm Pipes:

    A. All VCP pipe applications 10" in diameter and greater shall require resilient compression joints (bell & spigot) as per section 1302-4.2.2. of the City Standard Specifications. Compression couplings (band seals) are allowed for VCP pipe applications of up to 8" in diameter as approved by the Director of Public Works.
    B. All Storm Drain laterals to be 12" RCP unless noted otherwise.
    C. All Sanitary sewer laterals to be 4" VCP unless noted otherwise.
    D. All Sanitary sewer laterals to have a cleanout installed on-site within 5 feet of property line.
    E. Bolt-down manhole covers shall be used when manholes are not in the street (i.e. when located in landscaped areas, sidewalks, on-site easements, etc.).

18. If Contractor damages existing asphalt section during the removal of existing curb and gutter or at the discretion of the Project Inspector, the asphalt concrete shall be repaired by sawcutting 12" minimum from the lip of gutter and installing a 12" minimum 'Deep-Lift' AC section.

19. City Survey Monuments shall be preserved. In the event that a City Monument is lost to construction activities, the Contractor shall, at the Contractor's sole expense, be responsible for its re-establishment and the filing of a Corner Record with the County's Surveyor's Office. A Record of Survey shall be filed for all new City Monuments set in conjunction with this improvement plan, unless a Final or Parcel Map requiring said monuments is recorded as part of this project.

20. Pavement Marking and Striping layout and Traffic Signal Loop layout services shall be provided by the Developer's Engineer, Surveyor, or other qualified personnel.
21. Bench Mark

22. Plan References (i.e. Planning permit number, Record Drawings, etc.)

STANDARD IMPROVEMENT PLAN NOTES

ELECTRICAL NOTES – STREET LIGHTING

1. Material Submittals:
   A list of the materials proposed by the Contractor to be used on this project for street lighting including, but not limited to luminaires, poles, conduit, conductors, pull boxes, and service equipment shall be submitted to the City's Project Inspector for review prior to the start of work. This list shall include the manufacturer's specifications for all applicable products.

2. Services:
   A. Underground streetlight services shall be type IB - 240V (except use #5 pull box) service next to each PG&E secondary box used for streetlight service, unless specified otherwise.
   B. Permittee shall be responsible to apply for new service with PG&E or other power utility.
   C. All electric service points shown on these plans are tentative and shown for reference only. The actual service point(s) must be confirmed with PG&E (or other power utility) prior to construction of electrical work. All additional costs incurred for work modifications required due to final service point locations/adjustments shall be born by the permittee. If the final service point location(s) differ from the tentative location(s) shown on the plans, the permittee shall revise the plans and notify the Public Works Inspector of any changes and shall obtain city approval of changes prior to installation of electrical work.

3. Salvage of Equipment:
   Electrical equipment to be salvaged shall be delivered to the City of San Jose (CSJ) Electrical Maintenance Shop at 1404 Mabury Road. Contact the Department of Transportation at (408) 794-1969, 48 hours in advance to arrange for acceptance of salvaged equipment.

4. Overhead Utility Conflicts:
   Permittee is responsible for providing clearance for electroliers and traffic signal standards from overhead utility lines. Clearance must be a minimum of 10 feet from high voltage lines, 3 feet from secondary lines and 1 foot from communication lines. No electrolier or traffic signal standard shall be installed until proper clearance is obtained. All expenses associated with providing these clearances shall be borne by the developer.

5. All electrolier locations shall be staked in the field by the permittee.

6. All new conduit shall be rigid non-metallic PVC schedule 40 unless noted otherwise.

7. All new electroliers shall be type 10B pole on a type 2 foundation with C-8 mast arm and luminaire as indicated unless noted otherwise.

8. All ground rods or grounding electrode shall be installed in the pull box adjacent to the street light.

STANDARD IMPROVEMENT PLAN NOTES

9. A continuous #10 AWG green grounding conductor shall be installed for each new luminaire on new or re-wired electroliers. The grounding conductor shall be terminated in the luminaire housing and connected to the grounding wire in the base of the pole.

10. Street lighting conductors shall conform to the provisions of 86-2.08, “Conductors”, of the CSJ Standard Specifications and these notes. Conductor type shall be THW or THW-2 for conductor sizes #14 AWG through #10 AWG. Conductor type shall be THW, or THW-2, or UF, for conductor sizes #8 AWG and larger. Type THW and THW-2 conductors shall have a minimum insulation thickness as specified by the Conductor Applications and Insulations Rated 600 Volts table in the National Electric Code as adopted by CSJ.

11. When an existing electrolier being modified in any fashion is found to be deficient in meeting current Electrical Code the permittee shall make all corrections needed to bring it to code.

12. Permittee shall paint and renumber existing painted electroliers as indicated in the plans or as directed by Project Inspector.

13. New pull boxes for street lights shall be CSJ standard #5 pull box unless noted otherwise. New pull boxes shall be theft deterrent/anti-theft conforming to ANSI/SCTE 77 Tier 22 polymer concrete and shall have lids with a non-slip, non-metallic surface. New pull boxes shall have a bolt-down design and lids shall be secured with a minimum of two (2) ½” – 13 UNC non-proprietary penta-head bolts. Lids shall have bolt slots with a minimum of 1 ¼” diameter x ½” deep counter bore, and shall be provided with inserts to protect the bolt slots from debris. Pull box lids and pull box bodies shall all be provided by the same manufacturer and no mixing of products shall be allowed. All metallic conductive part shall have a ½” ground log and shall be bonded to ground by a bonding jumper with a ring terminal and a self-locking washer. The pull box shall also conform to the Standard Specifications, Standard Details, and the Project Plans.

14. Provide a styrene/polycarbonate plastic board inside the pull box to protect the conductors inside. It should be very light to not put pressure on the conductors and sized to protect the conductors and allow the pull box to be closed.

15. Foundation mortar of all existing traffic signal and street light poles shall conform to CSJ standard specifications section 82-2.03. If, after civil work is complete, the mortar does not conform to CSJ standards, poles shall be relocated onto a new foundation per new grade. In addition, if pull boxes need to be raised or lowered to new grade, conduit adjustments may be required so conduit entry to adjusted pull boxes conform to CSJ standards. If a traffic signal shutdown is not otherwise planned as part of this work, a shutdown will be required with the traffic signal pole relocation. All other city requirements for a signal shutdown will be enforced.