

COUNTY OF SACRAMENTO
Site Improvement & Permits Section
CIVIL IMPROVEMENT PLAN SUBMITTAL CHECKLIST

The following items shall be provided at the time of improvement plan submittal. Please submit the required number of copies of plans and related documents for distribution to County stakeholders.

- Completed Project Information Form
- Signed Statement of Applicants Responsibility (**Wet Signed Copy**)
- Signed Statement of Mutual Commitment
- A check for \$950 payable to “Sacramento County” to open billing account
- Ten (10) complete sets of improvement plans (22” x 34” or 24” x 36” sheets)
- Completed Department of Water Resources Plan Submittal Take-In Checklist
- Sanitary Sewer Submittal Approval Letter (**Contact Amandeep Singh at 876-6296 or singha@saccounty.net**)
- Water Supply Submittal Approval Letter (**ZONE 40, 41, or 50 – Contact John Kern 874-5159**)
- Draft easements and 2 copies of proof of ownership
- Completed Water Service Request & Cross-Connection Questionnaire form (**ZONE 40, 41, or 50 only**)
- Two (2) complete sets of landscape plans per Section 8-6 (A) of the Improvement Standards (a letter and diagram prepared and stamped by a licensed landscape architect may be submitted in lieu of landscape plans) (**ZONE 40, 41, or 50 only**)
- Proof of Mitigation Monitoring & Reporting Program (MMRP) fee payment (**Contact Eric Stackhouse at 874-8117 or Alison Little at 874-8620**)
- Eight (8) complete copies of Final Conditions of Approval (**prefer double-sided copy**)
- Two (2) copies of on-site and off-site water shed maps with drainage calculations
- Two (2) copies of the Street Light Plan sheets for street block signs
- Utility Conflict letters
- Two (2) copies of retaining wall calculations with soils report (required if retaining wall is greater than 2 feet high or any walls greater than six feet is proposed)
- Soils report if alternative road structural section is proposed

Note: It is the responsibility of the applicant to know if their project has an MMRP and if it is in Zone 40.

PROJECT INFORMATION

COUNTY OF SACRAMENTO

PROJECT NAME:

PROJECT ADDRESS:

PARCEL NO:

DESCRIPTION OF PROJECT:

ENGINEER / CONSULTANT INFO

COMPANY NAME:

CONTACT PERSON:

ADDRESS:

CITY:

STATE:

ZIP CODE:

PHONE NO:

FAX NO:

EMAIL:

DEVELOPER / OWNER INFO

COMPANY NAME:

CONTACT PERSON:

ADDRESS:

CITY:

STATE:

ZIP CODE:

PHONE NO:

FAX NO:

EMAIL:

FOR COUNTY USE ONLY:

CUSTOMER IDENTIFICATION NO:

ORDER NO:

SUB ORDER NO:

BOND TYPE:

BOND AMOUNT:

BOND RELEASE 90%:

BOND RELEASE 10%:

STATEMENT OF APPLICANTS RESPONSIBILITY Improvement Plan

Dear Applicant:

Please read the following statement outlining your responsibilities regarding the checking and approval of your Improvement Plan. A Civil Engineer is required to prepare these plans and certify his work with his seal and signature.

California Government Code Section 66451.2 authorizes cities & counties to charge a fee for the actual cost of review. Sacramento County has implemented this fee in Section 22.20.016 of Sacramento County Code. In submitting your plan for review and signing this form, you are agreeing to take responsibility for the costs generated by the County related to plan review, material testing, and construction inspections. An initial deposit \$950.00 is to accompany this plan submittal. Upon receipt, a unique account will be established in your name. You will receive a statement on a monthly basis, and all charges must be paid in full prior to the County Engineer's approval of your plans. If you are the owner of the affected land please sign on the line below. If you are an authorized agent of the owner please sign below and present a copy of your power of attorney for this project. Failure to keep your account current may result in delays of plan approval and issuance of building permits.

I hereby confirm that I understand my financial responsibility for this plan. If I sell or option this property, I will disclose the terms of this statement, and if I fail to do so, I will be jointly responsible.

(Please Print)

Assessors parcel No.: _____

Property Address/Project Name: _____

Planning Control No. (if applicable): _____

Applicant's Name: _____

Title: _____

Company Name: _____

Contractor's License _____ Business License _____

Address: _____

Telephone No.: _____

E-mail address: _____

Signed & Date: _____

Improvement Plan Processing Mutual Commitments

County Commitments

IMPROVEMENT PLAN REVIEWS

1. *Realistic and reasonable timelines will be developed and adhered to as follows:*
 - *1st plan review-20 working days for County to complete*
 - *2nd plan review-10 working days for County to complete*
 - *3rd plan review (if necessary) -10 working days for County to complete*
2. *A complete and comprehensive plan review will be performed with the first plan submittal.*
3. *Initial improvement plans reviews will be performed within 7 days of submittal in a coordinated effort during which improvement plan acceptance will be determined and will be contingent upon the completeness and quality of the submitted plan.*
4. *Incomplete plan submittals will not be accepted for review and plans will be returned to applicant engineers until submittals meet minimum established standards.*
5. *Improvement plans will be reviewed for consistency with most recent Board of Supervisor adopted Improvement Standards. Personal preferences will not be a basis for staff plan review.*
6. *Plans will be deemed incomplete when the following conditions are present:*
 - a. *plans are inconsistent with County Improvement Standards,*
 - b. *plans are inconsistent with County plan submittal checklists,*
 - c. *technical studies, as defined in each Departments submittal requirements, are not included with plan submittal, and*
 - d. *plans do not comply with Final Conditions of Approval.*
7. *Once accepted, County staff will review improvement plans utilizing Final Conditions of Approval. Plan review comments will be consistent with those conditions.*
8. *Improvement plan reviews will be completed within two review cycles. Prior to the initiation of a third review cycle, the Project Facilitator will convene a meeting with the developer, engineer and appropriate staff to resolve issues with the plan.*
9. *Plans resubmitted to the Land Division Site Improvement Review Section (LDSIRS) will be distributed upon day of receipt.*
10. *Plan check staff will be available by appointment during the hours of 1pm to 4:30 pm daily. Customers are encouraged to take advantage of appointment scheduling.*
11. *Plan check quality control measures will be instituted by County to insure consistency and accuracy of plan reviews including regular training of plan review staff, standard plan drafting standards and check lists made available to customers detailing plan submission requirements.*

PROJECT FACILITATOR ROLE

1. *A Project Facilitator will be designated for every improvement plan*
 - *to serve as a single point of contact for the developer and engineers,*
 - *to monitor status of plan review,*
 - *to monitor improvement plan time commitments are met by County staff,*
 - *and to insure consistency of plan reviews resulting in improved coordination of all comments.*
2. *County management and Project Facilitator will be responsible for monitoring timelines and to facilitate resolution of plan review issues.*

GENERAL PROVISIONS

1. *Technical study requirements will be developed in conjunction with the development community. Study requirements will be adhered to by both County staff and project customers.*
2. *At a minimum, quarterly technical staff training plans will be implemented to insure staff is knowledgeable in their craft and has the resources and skills to perform plan review.*
3. *LDSIRS will create, publish and maintain a scoreboard of performance measures for plan check review for all departments.*
4. *County will establish knowledgeable and responsible points of contact and return calls timely.*
5. *Improvement Standards will be updated by County every other year, at a minimum, to capture the changes to standards required to more accurately reflect the design function and infrastructure requirements of County service providers, the Board of Supervisors and the community.*

Developers/Engineers/Customers Commitments

1. *Quality control will be performed by the engineering firm submitting the improvement plan.*
2. *Developers/Engineers understand that plans will be deemed incomplete when the following conditions are present:*
 - *plans are inconsistent with County Improvement Standards,*
 - *plans are inconsistent with County plan submittal checklists,*
 - *technical studies, as defined in each Departments submittal requirements, are not included with plan submittal, and*
 - *plans do not comply with Final Conditions of Approval.*
3. *Improvement plan reviews will be completed within two review cycles. Prior to the initiation of a third review cycle, the County Project Facilitator will convene a meeting with the developer, engineer and appropriate staff to resolve issues with the plan.*
4. *Realistic and reasonable timelines will be developed and adhered to as follows:*
 - *Upon receiving notice of the County's 1st plan review comments the Developer shall resubmit to the County within 60 working days. If a complete re-submittal is not made within 60 working days the County's response time shall revert to 20 working days.*

- *If there is no submittal activity by the Developer on a project for a period of 120 working days, the County shall purge all improvement plan submittal documents from its files. Subsequent Improvement plan submittal for the project shall be treated as a completely new submittal and will require all documents associated with an initial Improvement Plan submittal.*
- 5. *Plans will not be resubmitted until the Developers/Engineers have responded to all comments provided by County on prior submittals. Written responses to each and every comment from the prior plan review will be provided with the next plan submittal.*
- 6. *Partial plan approvals will be requested only under the most extraordinary circumstances.*
- 7. *Developers/Engineers will verify all off-site conditions are met.*
- 8. *Developers/Engineers will establish knowledgeable and responsible points of contact and return calls timely from the County Project Facilitator.*
- 9. *Developers/Engineers will comply with appointment periods to allow plan check staff uninterrupted time to review improvement plans.*

Acknowledgement

I have read the above and agree to adhere to these commitments.

Applicant's Name (Please print)

Signature

Date

DEPARTMENT OF WATER RESOURCES PLAN SUBMITTAL TAKE-IN CHECKLIST

Note to Consultant: The checklist was developed to aid the Design Engineer in the development of improvement plans for submittal to the Sacramento County Department of Water Resources. The intent is to expedite plan review by reducing the number of incomplete or unclear submittals. Completion of this checklist does not imply approval of the submitted improvement plan.

Please include the completed checklist with your plan submittals to Sacramento County. This will ensure the checklist is routed in an expeditious manner.

Contact Name:	Date of Submittal:
Firm:	
Email:	
Contact Phone:	Contact Fax:
Signature of Design Engineer: _____ Date: _____	
By signing, I acknowledge that submitting incomplete plans and/or an incomplete checklist may be cause to have the plan review process suspended and our plans returned.	

Project Name: _____
Check One: Rough Grading Improvement Plans
Site Address: _____
Parcel Number: _____
Planning Control Number: _____

PRELIMINARY DRAINAGE PLAN SUBMITTAL CONTENT:

Please make the appropriate notations on the checklist below as you review your plans for completeness. For those items purposely not included, please note the reason why in the areas provided.

Drainage Study

NOTE: Sacramento County Department of Water Resources requires that a drainage study be submitted to this office for review and approval. The design computations for drainage shall conform to Sections 9-10 and 9-11 of the current Sacramento County Improvement Standards (<http://www.msa.saccounty.net/dss/ldsir/ImprovementStandards.htm>) and shall include, but not be limited to, a CD containing all modeling files (SacCalc, HEC-RAS, XP-STORM, CS Studio, etc.), and a written narrative describing assumptions used in the study, the study results and calculations supporting any interim facilities proposed. The hydrology standards to be used are found within the "Sacramento County Drainage Manual, Volume 2 – Hydrology" and are programmed into the "Sacramento County Hydrologic Calculator" (links for both located at <http://www.msa.saccounty.net/waterresources/files/Files.asp?c=dgen>). Please allow a minimum of two weeks for review of drainage studies.

Drainage Study not required (briefly explain why the study is not needed)

-
-
- Drainage Study submitted during planning and awaiting approval.
Title: _____ Date: _____
 - Drainage Study dated _____ was approved by Water Resources and was used in the preparation of the submitted plans.
Title: _____ Date: _____
 - Drainage Study is attached for review and approval.
Title: _____ Date: _____
 - Shed map included for both onsite and offsite watersheds in accordance with Section 9-9 of the Improvement Standards (October 2006).
 - Shed map not included (briefly explain why a shed map is not needed).

 - Overland Release hydraulic computations for street and non-street releases (including fence/wall).
 - Pipe Drainage Study Submitted (pipe network with nodes and sheds). Per Sacramento County requirements, the hydraulic grade line is a minimum of one-half foot (0.5') below the elevation of all inlet grates and a minimum one foot (1') below the elevation of manhole covers.
 - The worst case tail water condition is used in the pipe analysis and is selected below:
 - Ultimate 10-year channel or basin water surface elevation.
 - One foot (1') below the elevation of downstream manhole cover.
 - Tail water HGL assumptions are described in the study.
 - Tail water HGL assumptions are described as follows if not one of above:

Improvement Plans

NOTE: Improvement plans must be in accordance with the Sacramento County Improvement Standards (<http://www.msa.saccounty.net/dss/ldsir/ImprovementStandards.htm>) and Sacramento County Construction Specifications (<http://www.saccountyspecs.net/default.htm>).

- All conditions of approval relating to drainage development in accordance with the approved Planning Application Control No. _____ have been addressed. Approved planning document is attached.
 - Not all conditions have been satisfied. Exceptions are as follows:

- Signature block includes drainage fee area.

Signature block below has been placed on the Title page (for projects in unincorporated County only).

SACRAMENTO COUNTY MUNICIPAL SERVICES AGENCY	
PROJECT TITLE:	
ASSESORS PARCEL NUMBER:	
MAP COORDINATES:	
APPROVED:	
ORDER NUMBER:	DRAINAGE FEE:
CHECKED BY:	DRAINAGE APPROVED:

MSA signature block not used because project is within the incorporated City of _____

Notes Section

The following notes have been added to the Drainage Notes Section

1. All construction and materials for drainage shall be in accordance with the latest edition of the county of Sacramento Improvement Standards and Standard Construction Specifications. Where discrepancies exist, appropriate notes shall be added to the plans, taking precedence over the Standard Construction Specifications.
2. The minimum cover requirements during construction for temporary construction vehicle loading shall be 4-feet for metal and plastic pipe, and 3-feet for reinforced concrete pipe.
3. The contractor shall place the proper strength pipe if trench conditions encountered differ from the design trench.
4. Drainage in public row and drainage easements shall conform to the following:
Drainage pipe material shall conform to section 36 and section 50 (excluding 50-20, which is not allowed) of the standard construction specifications.
Drainage manholes shall conform to section 39 of the standard construction specifications.
5. Testing of drainage systems
Drainage in public row and drainage easements shall conform to the following:
Drainage pipes, including drain inlet laterals, shall be tested in conformance with section 38-10 of the standard construction specifications.
Storm drain manholes shall be tested in conformance with Section 39-4.02 of the Standard Construction Specifications.
6. Resilient connectors, in conformance with Section 39-2.02 and STD DWG 9-7A of the Standard Construction Specifications, are required between pre-cast manhole and pipe, and between pre-cast drop inlet and pipe. Water stops are required for pipe to cast-in-place manhole/drop inlet connections.
7. Erosion Control Structures (STD DWG 9-27) shall be Class B concrete, not grouted cobble.
8. All drainage inlets in public row and drainage easements shall have a permanent storm drain message "No Dumping – Flows to Creek" or other approved message consistent with section 9-14G and std. DWGs 11-10A and 11-10B of the Sacramento County Improvement Standards.

Exceptions to the above notes are as follows (briefly explain reason for each exception):

- The following notes are included for HDPE pipe:
 - HDPE
 1. Use control density backfill, Section 50-15, for locations where tunneling occurs under existing storm drain pipes.
 2. No HDPE is allowed for storm drain laterals in street intersections.
- High Density Polypropylene (HDPE) shall not be used in this project.

General

- The type and size of storm drain pipes are clearly shown on drainage plan.
- All manholes and junction structures have been sized in accordance with Improvement Standards Section 9-13 and the types and sizes are clearly indicated on the drainage plans.
- Details for custom manholes or junction structures are shown on sheets _____ and were designed in accordance with the following standards or design specifications:

- Inlet type is clearly indicated on the drainage plan.
- There are no connections to the corner of any drainage inlet. For all questionable locations where severe angles exist the following note has been placed with the proposed inlet information:

NOTE: Connections to drainage inlet must be on the face or side allowing a minimum of 6-inches from the corner of the inlet. A connection to corners of drain inlets is not allowed.

- Details are shown for all debris and access racks for each inlet and outlet pipe that is 24-inch diameter or larger is provided.
- A copy of the applicable permits from the U.S. Army Corps of Engineers, State Fish and Game, and State Water Quality Control Board is attached.
- No permits from any state or federal agencies were required for this project.

- The entire storm drain system is within the public right-of-way and or County drainage easements and shall be maintained by Sacramento County.

- The system is to be a private system, and is clearly labeled as such on the improvement plans and the maintenance will be performed by _____. A copy of the approved and executed private maintenance agreement describing who will do the maintenance and to what standard is attached. The maintenance agreement also states that the owner shall hold the County harmless of any claims associated with the failure of the private drainage system and shall ensure that the system is in good repair and serviceable at all times. In addition, the following text has been added to the plans concerning the onsite private drainage maintenance:

"Owner, or owner's designate, at Owner's or owner's designate's sole cost and expense, shall maintain the private drainage pipeline in good working order and repair commensurate with the County's standards for similar drainage pipelines such that water flows freely through the system as and when weather events or other sources of surface water runoff occur. Owner shall at all times take all necessary action to keep the drainage pipeline free from debris, trash, foliage and any other obstruction which may disrupt, alter, impede or change the flow of water. Owner shall also perform any relocation of the drainage pipeline pursuant to the standard specifications of the County should relocation be necessary due to pipe failure or blockage. Owner shall

hold County harmless of any claims associated with the failure of the private drainage system and shall assure the system is in good repair and serviceable at all times."

Plan & Profile

- All plan and profile sheets include the following:
- Flowline elevations of each manhole or junction structure.
- Rim elevations for all drainage structures.
- Pipe sizes, material type, class, length and slope.
- Manhole type and size.
- The hydraulic grade lines have been shown on the plans wherever the hydraulic grade line is above the soffit of the pipe and a note has been placed on the plans in the profile view indicating stationing where the hydraulic grade line is below the soffit of the pipe.
- All flowlines for all cross culverts are shown in the plan view.
- All structures have been shown in both plan and profile views.

Exceptions (briefly explain)

Easements

- Easement has been shown in accordance with Section 9-27 of the latest Sacramento County Improvement Standards (October 2006).
- Easements meet minimum width of fifteen feet (15').
- Easement is not split by property line.
- Exception to standard easement requirements (briefly explain reason for exception).

Grading

- Grading plan has been prepared in accordance with Section 10 the latest version of the Sacramento County Improvement Standards (October 2006).
- Minimum pad elevations have been clearly indicated.
- Overland release path and flowline elevations are clearly indicated on grading plan.
- A detail of the overland release discharge point is provided along with any permanent release paths in accordance with Section 9-15 of the latest Sacramento County Improvement Standards (2006).
- Items pertaining to erosion and sediment control are not shown on the grading plans but presented on a separate sheet titled "Erosion and Sediment Control Plan".

NOTE: To obtain permission to rough grade the site concurrently with the improvement plan review, applicants may seek a **Rough Grading Permit**. The submittal for a rough grading permit comprises only the improvement plan cover sheet with the title changed from “Project X Improvement Plans” to “Project X Rough Grading Plan”, the erosion and sediment control plan, and the SWPPP. As rough grading is at-risk, the following note must be added to the rough grading plan.

- Rough Grading Plan Note-** The following note has been added on the rough grading plans:
- “The Department of Water Resources considers these plans limited to rough grading activities only. As such, the review has been limited to checking for erosion and sediment control best management practices only. The Department of Water Resources will review the grading in detail as part of the improvement plan review. As such, it is understood that all grading activities by the developer and their agents are considered at-risk.”

Erosion and Sediment Control

NOTE: Section 11 of the Sacramento County Improvement Standards contains standard details for various erosion and sediment control measures. If reference is made to these drawings, it is not necessary to replicate the drawings on the erosion and sediment control plans.

- As required by Water Resources, an Erosion & Sediment Control Plan has been included in the improvement plans as separate sheet(s) and all specified BMPs have been presented in accordance with the latest edition (October 2006) of Section 11 of the Improvement Standards.
- The following notes have been added to the Erosion and Sediment Control Plan.
1. All erosion and sediment control measures shall be constructed and maintained in accordance with the current edition of the County of Sacramento Improvement Standards (October 2006).
 2. Erosion control best management practices (BMPs) shall be installed and maintained during the wet season (October 1 through April 30). Sediment control BMPs shall be installed and maintained year round.
 3. All drainage inlets immediately downstream of the work areas and within the work areas shall be protected with sediment control and inlet filter bags year round. Inlet filter bags shall be removed from the drainage inlets upon acceptance of the public improvements by the County.
 4. All stabilized construction access locations shall be constructed per Standard drawing 11-1 where construction traffic enters or leaves paved areas. The stabilized access shall be maintained on a year round basis until the completion of construction.
 5. All areas disturbed during construction by grading, trenching, or other activities, shall be protected from erosion during the wet season (October 1 through April 30). Hydroseed, if utilized, must be placed by September 15. Hydroseed placed during the wet season shall use a secondary erosion protection method.

6. Sensitive areas and areas where existing vegetation is being preserved shall be protected with construction fencing. Sediment control BMPs shall be installed where active construction areas drain into sensitive or preserved vegetation areas.
7. Sediment control BMPs shall be placed along the project perimeter where drainage leaves the project. Sediment control BMPs shall be maintained year round until the construction is complete or the drainage pattern has been changed and no longer leaves the site.
8. Erosion and sediment control measures for the project shall be in substantial compliance at all times with the stormwater pollution prevention plan (SWPPP) prepared for the project in accordance with the State of California General Construction Permit. This permit requires that the SWPPP be kept up to date to reflect the changing site conditions and the SWPPP is to be available on site at all times for review state and local inspectors.
9. Effective erosion control BMPs shall be in place prior to any storm events.

The following items are shown on the Erosion & Sediment Control plans:

- Disturbed areas and all retained existing vegetation.
- Numerical value of acreage disturbed during construction.
 - Because 1.0 acre or more is disturbed, a Waste Discharge Identification (WDID) number (or certification of mailing of NOI and check to Regional Board along with copy of each), and blank information block to be filled out at the pre-construction meeting containing the name and telephone number of the qualified person responsible for implementing the SWPPP are included.

OR

- Project disturbs less than one acre.
- A statement of quantities of material excavated and/or filled, whether such excavation or fill is temporary or permanent, and the amount of such material to be imported to or exported from the site.
- Existing and proposed topography (contours and spot elevations) has been provided onsite and offsite a minimum distance of 50 feet.
- On-site drainage patterns, surface drainage discharge points, and details of surface discharge points are shown.
- Off-site drainage patterns are clearly indicated where they enter the site and where they are routed around the site. The shed area of any offsite watershed conveyed through the project or routed around the project is stated. Details are shown to describe how the offsite shed is being conveyed through the project or routed around the project (dimensioned cross sections and flowlines, etc. of temporary channels, etc.)
- All structural and non-structural BMPs (non-structural BMPs are those statements governing the scheduling and location of structural BMPs).
- A BMP installation schedule for various phases of the project. The schedule includes the BMPs for both the wet season and dry season and addresses the initial phase (clearing, grubbing, and rough grading activities), site improvement construction phase (cut/fill activities, underground piping, streets, curbs gutters, etc), and final phase (completion of site improvements, prior to construction of housing or commercial structures). All proposed BMPs are listed in this schedule.
- A proposed maintenance schedule of all erosion and sediment control BMPs to be used during various phases of construction.

- Measures of dust control to be taken during construction activity.
- Location and detail reference for stabilized construction access.
- Location(s) and detail reference for concrete washouts.
- Locations for equipment/material storage area, debris/solid waste stockpiles, spoils storage and vehicle/equipment maintenance, fueling and washing areas
- Structural BMPs at:
 - project boundary
 - limits of disturbed areas
 - site perimeter (show section at perimeter of existing and proposed conditions)
 - overland flow locations such as ditches, creeks, and swales
 - tops and toes of slopes and stockpiles
 - perimeter of equipment/material storage areas, waste stockpiles, spoils storage areas, vehicle/equipment maintenance, fueling and washing areas.
- Measures (e.g. sediment basin, sediment trap, etc) taken during the **rough grading or grading process** to intercept and detain sediment laden run-off to allow the sediment to settle in accordance with Section 11. Sediment basin is sized to capture 100% of the two year, three day storm event from the onsite and/or offsite shed area. Included in design are dewatering procedures demonstrating (graphically or verbally) how the storm water run-off shall be evacuated from sediment traps and sediment basins (or any excavated low areas), the point of discharge to the public storm drain system, the method of secondary filtration proposed to treat discharge that appears to have high concentrations of suspended particles, and verbiage stating that alternative effective measures shall be implemented if the proposed method fails.
- Method for post-grading stabilization of all disturbed soil.
- A statement that straw mulch, soil binder or erosion control blankets/mats shall be used in conjunction with hydroseeding during the wet season for the temporary protection of disturbed soil (hydroseeding may be used alone only if there is sufficient time to ensure adequate vegetation establishment before the start of the rainy season).

If inlets are present:

- Drainage inlet protection in accordance with Section 11-13 and 11-14 has been provided. All inlets within the curb and gutter are shown as protected with an Inlet Sediment Control Barrier (DWG 11-7 in Improvement Standards). A custom Inlet Sediment Control Barrier is detailed for inlets not located in the curb and gutter. An inlet filter bag (DWG 11-8 in Improvement Standards) is included in all drain inlets.
- Concrete stamps or exposed plaques for a permanent storm drain message “No Dumping- Flows to Creek” or other approved message consistent with Section 9-14G of the Sacramento County Improvement Standards is specified.

If colloidal soils are anticipated:

- A temporary treatment basin and treatment system designed to treat and evacuate 50% of the two year, three day storm event within one week, along with all supporting calculations is included in plans. The treatment system may be shown as a contingency.

If a creek is present:

- Special BMPs implemented during creek improvements in order to prevent erosion during construction.
- Method to re-stabilize creek after completion of improvements.

- A buffer adjacent to the creek a minimum of 20 feet wide disallowing stockpiling or staging.
- The above list has been carefully reviewed and the Water Resources plan reviewer should be aware of the following exceptions:

Drainage Channel & Detention Basin (when required)

Department of Water Resources requires that grading plans and improvement plans for regional channels and basins be prepared separately from those for the subdivision units, villages and road plans.

- Check here if there are no regional basins or constructed channels associated with these improvement plans and proceed to SWPPP section, OR continue below.
- Any Creek/Channel Improvements conform to Section 9-20 C12 of the latest Improvement Standards and have included the following:
 - Typical sections and cross sections.
 - Profile of existing channel and top of bank profile.
 - Ten and one hundred year water surface elevation.
 - Any road crossings with road profile indicating overland release.
- River station labels on the improvement plans for channels match those in the approved drainage study.
- Sheet(s) of cross-sections and details for the channel basin are included in the plans; details include outfall structure, inflow pipe, etc.
- Sheets for mechanical, structural, and electrical details (e.g. pump, automated trash rack) are included in the plans.
- Plan and profile plan for connecting channel and/or pipe is included in the plans.
- Permanent erosion control has been designed and detailed for each outlet pipe and culvert.
- Utility Plan with utility easements is shown.
- Grading plan is included with approved grades at the basin bottom, inlet and outlet inverts, 10 and 100 year water surface elevations, easements shown, a certification block for use by engineer or land surveyor, and calculations in accordance with the drainage master plan including:
 - Depth-volume rating curve for stormwater quality and/or
 - Depth-volume rating curve for flood control
 - Stormwater quality volume and/or
 - Flood control volume
- Debris and access racks are detailed for each inlet or outlet pipe that is 24" in diameter or larger.

- Any interim facility is clearly labeled as interim and all the pertinent design information is included in the plans (e.g. weir elevation). Calculations supporting the design of the interim facility have been included in the Drainage Master Plan.

Operation and Maintenance Manual for Basins and Channels

- Operation and Maintenance Manual for detention basin and channels is/are included in this submittal and includes the following items:
 - A vicinity map and narrative describing the location of the basin.
 - A shed map of the area served by the basin.

 - Landscaping / plantings / irrigation operation and maintenance plan
 - A narrative describing the operation of the basin (i.e., the basin provides flood detention and wet stormwater quality treatment, shed area served, peak flows, etc.).
 - Certified grading plan is included with approved grades at the basin bottom, inlet and outlet inverts, 10 and 100 year water surface elevations, easements shown, a certification block for use by engineer or land surveyor, and calculations in accordance with the drainage master plan including:
 - Depth-volume rating curve for stormwater quality and/or
 - Depth-volume rating curve for flood control
 - Stormwater quality volume and/or
 - Flood control volume
 - A map of the basin identifying any jurisdictional or open space areas, plantings to be protected, etc.
 - A signed narrative describing what maintenance activities are acceptable and any prohibitions against maintenance activities within the basin.
 - A copy of any and all Corps permits, Fish and Game permits, preserve maintenance agreements, etc. that may limit maintenance activities in or around the basin.

Stormwater Pollution Prevention Plan (SWPPP) (when required)

Note: The Sacramento County Department of Water Resources reviews SWPPP's for inclusion of punchlist items only and not for adequacy or completeness of information therein. Completion of this checklist does not imply approval of the SWPPP.

- Because 1.0 acre or more is disturbed, a SWPPP is required and included with this submittal.
 - SWPPP will be submitted by _____ under separate cover.
- The following items are included in the SWPPP:
 - WDID number proof of NOI submittal (copy of completed and signed NOI, mail certification and copy of check to Regional Board).
 - Vicinity map showing general topography, geographic features, construction site perimeter and nearby roadways.
 - Site map showing the project in detail (i.e. Erosion and Sediment Control plan).

- Detailed, site specific listing of potential sources of storm water pollution.
- Description of the type & location of erosion & sediment control BMPs to be used.
- Information block for name & telephone number of the qualified person responsible for implementing the SWPPP.
- Certification/signature by the landowner or authorized representative.

- A SWPPP is not required for this project for the following reason

Post-Construction Stormwater Quality Treatment Requirement (when required)

If your project matches one of the selections below (see “Control Measure Selection Matrix” link at <http://www.sactostormwater.org/SSQP/development.asp> for more details), it will require post-construction stormwater quality treatment. Please indicate which one most closely matches your project description and then find it on the Selection Matrix to determine which type of treatment is allowed.

- Residential development 20.0 acres or more.
- Multi-family (condominiums, apartments, etc.) residential development, or redevelopment, of 1.0 acre or more total area.
- Commercial development, or redevelopment, of 1.0 acre or more of impervious surfaces such as flat work, parking lots, and rooftops.

Post-Construction Stormwater Quality Treatment Plan (PCSQP)

- The PCSQP is included with improvement plans and shows Post Construction Control Measures that meet the requirements of the local, state and federal requirements as listed on the “Control Measure Selection Matrix”.
- The PCSQP contains design detail and calculations to demonstrate the adequacy of the post construction control method, and includes the following items:
 - Post Construction Grades
 - Existing & proposed buildings and other structures
 - Location of fences (gates) to ensure access for maintenance of the stormwater quality treatment device.
 - Location of roof downspout (identify directly connected or disconnected)
 - Pavement
 - Landscaping
 - Areas requiring source control measures (loading areas, fueling areas, etc.)
 - Drainage systems
 - Contributing shed delineation
 - Post Construction Control Measures, including the following information where applicable:
 - Dimensions and setbacks from property lines and structures
 - Profile view, including typical cross-sections with dimensions
 - Water surface elevations/freeboard
 - Inlets, outlet structures, and release points
 - Vegetation & growing medium specifications



SACRAMENTO COUNTY WATER AGENCY
 WATER SERVICE REQUEST AND
 CROSS-CONNECTION CONTROL QUESTIONNAIRE

County of Sacramento
 Municipal Services Agency
 Department of Water Resources
 827 7th Street Room 301
 Sacramento, CA 95814

Phone (916) 874-6851
 Fax (916) 874-8693

CONDITION OF SERVICE:

That all water facilities; including record drawings, water line easements, materials, installation and construction is completed in a timely manner in accordance with the approved plans, Sacramento County Standards and requirements.

COMPANY/FACILITY _____

SERVICE ADDRESS _____

MAILING ADDRESS _____

TYPE OF BUSINESS _____

CONTACT _____ PHONE _____

	No. of Service Connections	Type of Protection*	Design Flow (GPM)
DOMESTIC			
FIRE			
IRRIGATION			

*Reduced pressure (RP), double check (DC), pressure vacuum breaker (PVB) or air gap (AG).

Is this a restricted or classified facility? Yes No

Will this site be a closed or limited access facility? Yes No

Number of buildings on this site _____

Building height _____ ft.

Number of floors _____

Gross floor square footage _____ sf.

CUSTOMER RESPONSIBILITY:

The backflow prevention assembly shall be tested by certified backflow prevention assembly tester at the time of installation and annually thereafter, or more often as the Health Officer may require.

A current list of approved backflow prevention assemblies and testers is available through the Sacramento County Environmental Health Division of the Environmental Management Department.

SITE IMPROVEMENT:

Civil Engineer _____ Phone _____

Mechanical Engineer _____ Phone _____

Landscape Architect _____ Phone _____

OFFICE USE:

General Contractor:

Water Facility Contractor:

Plumbing Contractor:

Irrigation Contractor:

Comments:

		Yes	No
1. Auxiliary Water Supply:			
	A. Water Well		
	B. Storage Tank		
	C. Other		
	Approved water system		
	Interconnected with public water system		
2. Hazardous materials on premises			
	Water connected		
3. Special uses/equipment requiring water at all times			
4. Heating/cooling system – water connected:			
	A. Air conditioners		
	B. Boilers		
	C. Chillers		
	D. Cold storage		
	E. Cooling towers		
	F. Heat exchangers		
	G. Hydronic heat		
	H. Refrigeration		
	I. Solar panels		
	J. Water cooled condensers		
	K. Water cooled equipment		
	L. Other		
5. Industrial fluids/pressure system – water connected:			
	A. Booster pumps		
	B. Circulating pumps		
	C. Hydraulic lines		
	D. Hydro-pneumatic systems		
	E. Priming lines		
	F. Steam lines		
	G. Other		
6. Chemical injection/feeder systems – water connected:			
	A. Corrosion/scale inhibitors		
	B. Algae/microorganism biocides		
	C. Soaps		
	D. Softeners		
	E. Other		
7. Irrigation systems:			
	A. Chemical/fertilizer injection		
	B. Booster pumps		
	C. Separate service connection		
	D. Other		

8. Laboratory facilities – with water connected equipment:	Yes	No

9. Kitchen facilities (commercial):		
A. Coffee urns		
B. Dishwasher		
C. Double boiler		
D. Garbage disposal		
E. Grease trap		
F. Pressure cooker		
G. Steam table		
H. Other		

10. Ornamental fountains/ponds: _____

11. Plating facilities: _____

12. Reclaimed water/solvents: _____

13. Sewage system:

A. Pumps		
B. Water operated sump ejectors		
C. Water connection for unclogging		
D. Trailer flushing facilities		
E. Holding tanks		
F. Flush valve toilets/urinals		

14. Swimming pool/spa:

A. Chemical additives		
B. Low-level inlet		

14. Tanks, vats or other vessels containing non-potable substances: _____

16. Fire protection system – connected to public water:

A. Class I-II special conditions:		
i. Hazardous substances on premises		
ii. Underground fire sprinkler pipe lines parallel to and within 10 ft horizontally of sewer pipe lines or other pipe lines carrying hazardous substances		
iii. Complex piping systems		
B. Unapproved auxiliary water supply available		
Connected to auxiliary water		
C. Elevated storage tanks/private reservoirs		
D. Hazardous substance(s) in fire system		
E. Interconnection with another public water service		

Comments:

Community Development
Department
Lori Moss, Director



Divisions
Building Permits & Inspection
Code Enforcement
County Engineering
Planning and Environmental Review

Sacramento County Improvement Plan Submittal Guideline

Introduction: This submittal guideline is provided for the convenience of our customers. Complete and accurate plan submittals help speed the plan review process. Attention to the completeness and accuracy of information at the beginning of the process generally leads to fewer re-submittals and request for revisions by County staff. Please use the guideline to ensure that your submittal includes all of the information necessary for a timely review of your plans. The guideline is provided as a tool and is not intended to be all-inclusive. Additional information may be required during the plan review process.

Applicant's responsibility: Applicants are responsible for submitting a complete package for review. *Incomplete Improvement Plan submittals will result in plans being rejected or returned to the applicant during the review process.*

Requirements: The following items must be completed before improvement plans can be submitted for processing.

- Final Conditions of Approval
- Approved Sanitary Sewer Study
- Approved Water Supply Study

Applicable Codes: Project shall meet the requirements of the California State Laws, County's adopted Codes, Ordinances, Regulations and Standards:

County Codes
County Zoning Code
County Improvement Standards
County Construction Specification Standards

Submittal Package:

The following information shall be provided at the time you submit your civil improvement plans. Please submit the required number of copies of plans and related documents for routing to reviewing departments.

- Statement of Applicants Responsibility
- Signed Mutual Commitment Statement
- A check for \$950 payable to "Sacramento County" to open billing account
- Ten (10) complete sets of improvement plans (22" x 34" or 24" x 36" sheets)
- Completed Department of Water Resources (DWR) Plan Submittal Take-In Checklist
- Sanitary Sewer Submittal Approval Letter
- Water Supply Submittal Approval Letter (applicable if project is in Zone 40)
- Draft easements and proof of ownership (a copy of the preliminary title report)
- Completed Water Service Request form (see attached)
- Two (2) complete sets of landscape plans per Section 8-6 (A) of the Improvement Standards (a letter and diagram prepared and stamped by a licensed landscape architect may be submitted in lieu of landscape plans)
- Proof of Mitigation Monitoring and Reporting Program (MMRP) fee payment ()
- Eight (8) complete copies of Final Conditions of Approval
- Two (2) copies of on-site and off-site water shed maps and drainage calculations
- Utility Conflict letters
- Two (2) copies of retaining wall calculations with soils report (applicable if retaining wall is greater than 2 feet high or any walls greater than six feet is proposed)
- Soils report if alternative road structural section is proposed.

It is the responsibility of the applicant to know if their project has an MMRP and if it is in Zone 40.

Review Guidelines:

This list is not intended to be all-inclusive of every detail required on a set of improvement plans. It is provided to give an overview of basic plan contents needed for plan review.

Letters and Numerals: All letters and numerals shall be 0.10 inch minimum height.

Title block:

The title block shall be across the bottom or along the right edge of sheet with preferred one (1") inch clear margin.

- Sheet title
- Sheet number
- Date
- Scale

- Project title
- Engineer's name, signature and seal
- Engineer's license expiration date

Cover Sheet:

- Approval and revision blocks
- Assessment district limits (if applicable)
- Assessor's Parcel Number
- Adjacent Subdivision, including names, lot lines and lot numbers
- Benchmark Information
- California Coordinates
- County required notes
- Legends of symbols
- MMRP reference note (if applicable)
- North arrow and graphic drawing scale
- Project Boundary
- Property Lines
- Public easements
- Sheet index
- Vicinity or location map
- Water and Fire approval block

Detail and Note Sheet:

- Applicable County Notes
- Typical street sections – Structural pavement section (soils report required for alternative sections), cross slope, curb type and sidewalk width

Plan and Profile Sheets:

All existing and proposed information as well as facilities shall be shown. Where it exists, county stationing shall be used for public roads.

- Elevations of storm drainage, sanitary sewer, water and pertinent utilities including manhole flow line, top of structure rim and hydraulic grade line
- Existing and proposed gutter flow elevation at curb returns
- Right of way lines
- Boundaries of lots fronting on the street
- Easements
- Both on-site and off-site right of way and easement lines
- Street striping
- Medians

- Driveway type and width (on both sides of the street when within 40 feet of the median ending)
- Curb
- Sidewalks
- Handicap ramp
- Pavement Shoulders and pavement transition
- Elevation, location and size of all underground utilities, storm drainage and sanitary sewer lines (see attached CSD-1 Checklist)
- Limits of 100-year flood plains
- Structures
- Trees (6 inches and larger) and other foliage
- Traffic signals, conduits and loops
- Street lights, pull boxes, and conduits
- Drainage ditches
- Utility Poles
- Fire Hydrants
- Retaining Walls
- Existing contours and supporting spot elevations
- Any other features of the area which may affect the design requirement for the area.
- Profile of roadway centerline, edge of pavement, gutter flow line, drainage ditch
- Profile of storm drainage, sanitary water, water and other pertinent utilities
- Elevations of proposed public streets at 50 foot intervals and at grade breaks (25 foot intervals with vertical curve)
- Street grades
- Pipe size, material type, class, length and slope

On all subdivision plans, a separate plan is required for Water, Street Light, Grading and Erosion & Sediment Control.

Water Plan:

The following items are required and shall be shown on the Water Plan:

- North arrow and Scale: 1 inch = 100 feet
- Applicable Water Notes
- Water mains
- Location of valves, fire hydrants, air relief/vacuum valve assemblies, blow offs and all other appurtenances
- Raw water pipeline system (if applicable)
- Location of well and treatment plant sites
- Off-site and on-site water easement (if applicable)

Street Light Plan:

The following items are required on the Street Light Plan:

- Vicinity Map
- Utility Poles and Public utility easements
- Name of Adjacent subdivisions
- Intersection property lines of adjacent properties
- Legend of symbols
- North arrow and appropriate scale
- All existing street lights on both sides of any streets
- All new tree installation shall be more than 10 feet from street lights
- All trees within the vicinity of the conduit runs or proposed street lights

Grading Plan:

Fills and cuts at property lines shall not exceed 2 feet unless permitted by the project conditions of approval. The following items shall be included:

- Slope symbols for 3:1 slopes or steeper
- Ridge and/or valley delineation
- Typical lot grading details
- Proposed spot and/or pad elevations
- Flow directional arrows
- Perimeter elevations at property line
- Existing spot elevation and/or contour lines on-site and off-site around perimeter of development (Spot elevations and contour lines shall be extended for a minimum distance of 50 feet, 100 feet minimum on flat terrain)
- Existing trees (variety, size and elevation) where applicable, protected trees must be identified by the number assigned to them in the project arborist report, with trunk locations and drip-line protection areas as defined in the arborist report.
- Retaining wall details (symbols, construction details, limits, and bottom and top of wall elevations)
- Retaining walls within 8 feet of boundary, phase, right-of-way lines shall be concrete or masonry
- Retaining wall calculation and soils report are required if wall is greater than 2 feet in height. Wall Calculation and soils report are required for fences greater than 6 feet in height
- Back of walk or curb elevations
- Location and grate elevation of drainage inlets
- Typical sections at property lines
- Names of adjacent subdivisions and Assessor's Parcel Numbers of adjacent lots
- Signature block for pad elevations certification and geotechnical statement
- Location of spoiled disposal.
- Required Grading Notes

- Overland release paths, grades and details

Erosion and Sediment Control Plan:

Refer to DWR Take-In hand-out.

Additional Information: Addition attachments are provided to assist with the preparation of the Improvement Plans.

Attachments:

1. Statement of Applicant's Responsibility
2. Mutual Commitment Statement
3. DWR Take-In Checklist
4. Water Service Request & Cross-Connection Control Questionnaire
5. DOT Checklists

Plan Check- Checklist

Cover Sheet

1. Label APN Number
2. Show Vicinity map
3. North Arrow (up or to the right)

Typical Section

1. Label 1-1/2% to 3% street cross-slope for new pavement section.
2. Verify structural section is labeled, and check proposed structural section
3. Dimension existing/proposed pavement width and right-of-way.
4. Label pavement conform per 4-32
5. Check required curbs and gutter (within bus turnout?)
6. Sidewalk width
7. Pavement width on nonstandard roadways (offset centerline etc)
8. If offset centerline, show monument centerline and construction centerline and dimension

Plan Profile

1. Verify cross-slopes (1.5% to 3.0%)
2. Cutline parallel to centerline/lanelines
3. Striping required? New intersection or adding new lane or longer than ¼ mile
4. Street lights? (safety lights, also need one at Bus pad)
5. Pavement/sidewalk barricades.
6. Manhole locations. (at lanelines or center of lanes preferred)
7. right-of-way per standards or masterplan intersection.
8. signal modification required or installation of loops (presence or advance detectors)?
9. Bus turnout?
10. Trench restoration per 4-31

11. Handicap Ramps (per Standards). Type?
12. Traffic control plan? Closing or trenching across major street
13. Striping replacement note. Is project removing lots of stripes?
14. Trench moratorium?
15. Trench Fees?
16. Striping Plan Required? New intersection with major street? Adding new lane? Adding a turn pocket?
17. Signal modification plan required?