



The City of San Diego

**PRIORITY DEVELOPMENT PROJECT (PDP)
STORM WATER QUALITY MANAGEMENT
PLAN (SWQMP) FOR**

**5228 Chelsea Street
PTS 502954**

ENGINEER OF WORK:
SAN DIEGO LAND SURVEYING & ENGINEERING, INC.
9665 Chesapeake Drive, Suite 445
San Diego, Ca 92123

Michael L. Smith C-35471

PREPARED FOR:
5310C LLC
1900 WESTERN AVENUE
LAS VEGAS NV

PREPARED BY:

SAN DIEGO LAND SURVEYING & ENGINEERING, INC.
858-565-8362

DATE: 01-18-2017

Approved by: City of San Diego

Date

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ACRONYMS

APN	Assessor's Parcel Number
ASBS	Area of Special Biological Significance
BMP	Best Management Practice
CEQA	California Environmental Quality Act
CGP	Construction General Permit
DCV	Design Capture Volume
DMA	Drainage Management Areas
ESA	Environmentally Sensitive Area
GLU	Geomorphic Landscape Unit
GW	Ground Water
HMP	Hydromodification Management Plan
HSG	Hydrologic Soil Group
HU	Harvest and Use
INF	Infiltration
LID	Low Impact Development
LUP	Linear Underground/Overhead Projects
MS4	Municipal Separate Storm Sewer System
N/A	Not Applicable
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
PDP	Priority Development Project
PE	Professional Engineer
POC	Pollutant of Concern
SC	Source Control
SD	Site Design
SDRWQCB	San Diego Regional Water Quality Control Board
SIC	Standard Industrial Classification
SWPPP	Stormwater Pollutant Protection Plan
SWQMP	Storm Water Quality Management Plan
TMDL	Total Maximum Daily Load
WMAA	Watershed Management Area Analysis
WPCP	Water Pollution Control Program
WQIP	Water Quality Improvement Plan

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CERTIFICATION PAGE

Project Name: 5228 CHELSEA ST
Permit Application Number: 502954

I hereby declare that I am the Engineer in Responsible Charge of design of storm water BMPs for this project, and that I have exercised responsible charge over the design of the project as defined in Section 6703 of the Business and Professions Code, and that the design is consistent with the requirements of the Storm Water Standards, which is based on the requirements of SDRWQCB Order No. R9-2013-0001 as amended by R9-2015-0001 and R9-2015-0100 (MS4 Permit).

I have read and understand that the City Engineer has adopted minimum requirements for managing urban runoff, including storm water, from land development activities, as described in the Storm Water Standards. I certify that this PDP SWQMP has been completed to the best of my ability and accurately reflects the project being proposed and the applicable source control and site design BMPs proposed to minimize the potentially negative impacts of this project's land development activities on water quality. I understand and acknowledge that the plan check review of this PDP SWQMP by the City Engineer is confined to a review and does not relieve me, as the Engineer in Responsible Charge of design of storm water BMPs for this project, of my responsibilities for project design.

C-35471 09-30-2017

 Engineer of Work's Signature, PE Number & Expiration Date

MICHAEL LEE SMITH

 Print Name

SAN DIEGO LAND SURVEYING & ENGINEERING, INC.

 Company

01-18-20

 Date

 Engineer's Stamp

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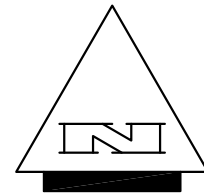
SUBMITTAL RECORD

Use this Table to keep a record of submittals of this PDP SWQMP. Each time the PDP SWQMP is re-submitted, provide the date and status of the project. In last column indicate changes that have been made or indicate if response to plan check comments is included. When applicable, insert response to plan check comments.

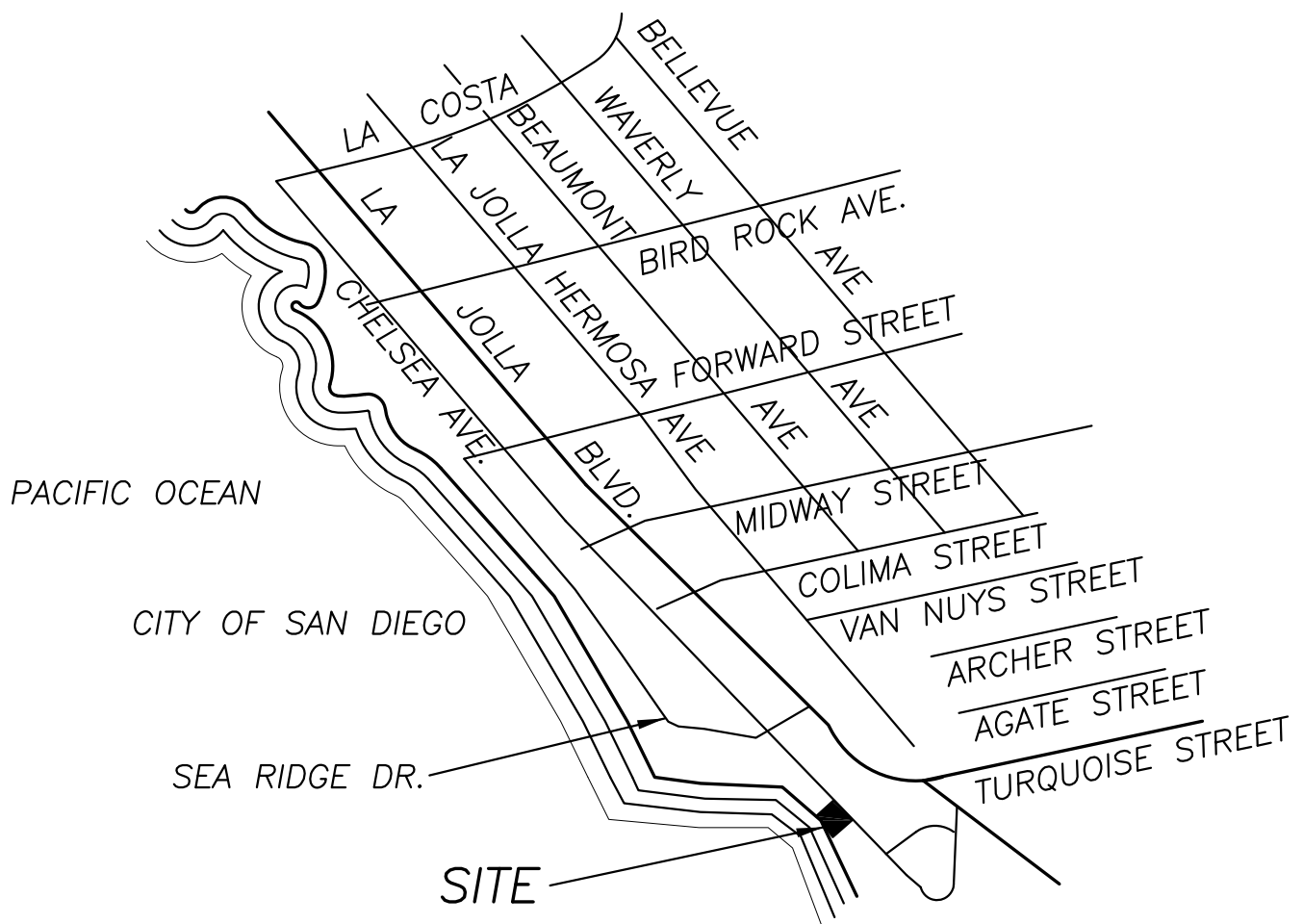
Submittal Number	Date	Project Status	Changes
1	01-18-2017	<input checked="" type="checkbox"/> Preliminary Design/Planning/CEQA <input type="checkbox"/> Final Design	Initial Submittal
2		<input type="checkbox"/> Preliminary Design/Planning/CEQA <input type="checkbox"/> Final Design	
3		<input type="checkbox"/> Preliminary Design/Planning/CEQA <input type="checkbox"/> Final Design	
4		<input type="checkbox"/> Preliminary Design/Planning/CEQA <input type="checkbox"/> Final Design	

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PROJECT - 5228 CHELSEA STREET
PA NUMBER - 502954



NO SCALE



VICINITY MAP

NOT TO SCALE

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STORM WATER REQUIREMENTS APPLICABILITY CHECKLIST

Complete and attach DS-560 Form included in Appendix A.1



City of San Diego
Development Services
1222 First Ave., MS-302
San Diego, CA 92101
(619) 446-5000

Storm Water Requirements Applicability Checklist

FORM
DS-560
OCTOBER 2016

Project Address:

Project Number (for City Use Only):

SECTION 1. Construction Storm Water BMP Requirements:

All construction sites are required to implement construction BMPs in accordance with the performance standards in the [Storm Water Standards Manual](#). Some sites are additionally required to obtain coverage under the State Construction General Permit (CGP)¹, which is administered by the State Water Resources Control Board.

For all projects complete PART A: If project is required to submit a SWPPP or WPCP, continue to PART B.

PART A: Determine Construction Phase Storm Water Requirements.

1. Is the project subject to California's statewide General NPDES permit for Storm Water Discharges Associated with Construction Activities, also known as the State Construction General Permit (CGP)? (Typically projects with land disturbance greater than or equal to 1 acre.)

☐ Yes; SWPPP required, skip questions 2-4 ☐ No; next question

2. Does the project propose construction or demolition activity, including but not limited to, clearing, grading, grubbing, excavation, or any other activity resulting in ground disturbance and contact with storm water runoff?

☐ Yes; WPCP required, skip 3-4 ☐ No; next question

3. Does the project propose routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility? (Projects such as pipeline/utility replacement)

☐ Yes; WPCP required, skip 4 ☐ No; next question

4. Does the project only include the following Permit types listed below?

- Electrical Permit, Fire Alarm Permit, Fire Sprinkler Permit, Plumbing Permit, Sign Permit, Mechanical Permit, Spa Permit.
- Individual Right of Way Permits that exclusively include only ONE of the following activities: water service, sewer lateral, or utility service.
- Right of Way Permits with a project footprint less than 150 linear feet that exclusively include only ONE of the following activities: curb ramp, sidewalk and driveway apron replacement, pot holing, curb and gutter replacement, and retaining wall encroachments.

☐ Yes; no document required

Check one of the boxes below, and continue to PART B:

☐ If you checked "Yes" for question 1,
a SWPPP is REQUIRED. Continue to PART B

☐ If you checked "No" for question 1, and checked "Yes" for question 2 or 3,
a WPCP is REQUIRED. If the project proposes less than 5,000 square feet of ground disturbance AND has less than a 5-foot elevation change over the entire project area, a Minor WPCP may be required instead. **Continue to PART B.**

☐ If you checked "No" for all questions 1-3, and checked "Yes" for question 4
PART B does not apply and no document is required. Continue to Section 2.

1. More information on the City's construction BMP requirements as well as CGP requirements can be found at:
www.sandiego.gov/stormwater/regulations/index.shtml

PART B: Determine Construction Site Priority

This prioritization must be completed within this form, noted on the plans, and included in the SWPPP or WPCP. The city reserves the right to adjust the priority of projects both before and after construction. Construction projects are assigned an inspection frequency based on if the project has a "high threat to water quality." The City has aligned the local definition of "high threat to water quality" to the risk determination approach of the State Construction General Permit (CGP). The CGP determines risk level based on project specific sediment risk and receiving water risk. Additional inspection is required for projects within the Areas of Special Biological Significance (ASBS) watershed. **NOTE:** The construction priority does **NOT** change construction BMP requirements that apply to projects; rather, it determines the frequency of inspections that will be conducted by city staff.

Complete PART B and continued to Section 2

1. ☐ **ASBS**
 - a. Projects located in the ASBS watershed.
2. ☐ **High Priority**
 - a. Projects 1 acre or more determined to be Risk Level 2 or Risk Level 3 per the Construction General Permit and not located in the ASBS watershed.
 - b. Projects 1 acre or more determined to be LUP Type 2 or LUP Type 3 per the Construction General Permit and not located in the ASBS watershed.
3. ☐ **Medium Priority**
 - a. Projects 1 acre or more but not subject to an ASBS or high priority designation.
 - b. Projects determined to be Risk Level 1 or LUP Type 1 per the Construction General Permit and not located in the ASBS watershed.
4. ☐ **Low Priority**
 - a. Projects requiring a Water Pollution Control Plan but not subject to ASBS, high, or medium priority designation.

SECTION 2. Permanent Storm Water BMP Requirements.

Additional information for determining the requirements is found in the [Storm Water Standards Manual](#).

PART C: Determine if Not Subject to Permanent Storm Water Requirements.

Projects that are considered maintenance, or otherwise not categorized as "new development projects" or "redevelopment projects" according to the [Storm Water Standards Manual](#) are not subject to Permanent Storm Water BMPs.

If "yes" is checked for any number in Part C, proceed to Part F and check "Not Subject to Permanent Storm Water BMP Requirements".

If "no" is checked for all of the numbers in Part C continue to Part D.

1. Does the project only include interior remodels and/or is the project entirely within an existing enclosed structure and does not have the potential to contact storm water? ☐ Yes ☐ No
2. Does the project only include the construction of overhead or underground utilities without creating new impervious surfaces? ☐ Yes ☐ No
3. Does the project fall under routine maintenance? Examples include, but are not limited to: roof or exterior structure surface replacement, resurfacing or reconfiguring surface parking lots or existing roadways without expanding the impervious footprint, and routine replacement of damaged pavement (grinding, overlay, and pothole repair). ☐ Yes ☐ No

PART D: PDP Exempt Requirements.

PDP Exempt projects are required to implement site design and source control BMPs.

If “yes” was checked for any questions in Part D, continue to Part F and check the box labeled “PDP Exempt.”

If “no” was checked for all questions in Part D, continue to Part E.

1. Does the project ONLY include new or retrofit sidewalks, bicycle lanes, or trails that:

- **Are designed and constructed to direct storm water runoff to adjacent vegetated areas, or other non-erodible permeable areas? Or;**
- **Are designed and constructed to be hydraulically disconnected from paved streets and roads? Or;**
- **Are designed and constructed with permeable pavements or surfaces in accordance with the Green Streets guidance in the City’s Storm Water Standards manual?**

☐ Yes; PDP exempt requirements apply

☐ No; next question

2. Does the project ONLY include retrofitting or redeveloping existing paved alleys, streets or roads designed and constructed in accordance with the Green Streets guidance in the [City’s Storm Water Standards Manual](#)?

☐ Yes; PDP exempt requirements apply

☐ No; project not exempt.

PART E: Determine if Project is a Priority Development Project (PDP).

Projects that match one of the definitions below are subject to additional requirements including preparation of a Storm Water Quality Management Plan (SWQMP).

If “yes” is checked for any number in PART E, continue to PART F and check the box labeled “Priority Development Project”.

If “no” is checked for every number in PART E, continue to PART F and check the box labeled “Standard Development Project”.

1. New Development that creates 10,000 square feet or more of impervious surfaces collectively over the project site. This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.

☐ Yes ☐ No

2. Redevelopment project that creates and/or replaces 5,000 square feet or more of impervious surfaces on an existing site of 10,000 square feet or more of impervious surfaces. This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.

☐ Yes ☐ No

3. New development or redevelopment of a restaurant. Facilities that sell prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption (SIC 5812), and where the land development creates and/or replace 5,000 square feet or more of impervious surface.

☐ Yes ☐ No

4. New development or redevelopment on a hillside. The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site) and where the development will grade on any natural slope that is twenty-five percent or greater.

☐ Yes ☐ No

5. New development or redevelopment of a parking lot that creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site).

☐ Yes ☐ No

6. New development or redevelopment of streets, roads, highways, freeways, and driveways. The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site).

☐ Yes ☐ No

7. **New development or redevelopment discharging directly to an Environmentally Sensitive Area.** The project creates and/or replaces 2,500 square feet of impervious surface (collectively over project site), and discharges directly to an Environmentally Sensitive Area (ESA). "Discharging directly to" includes flow that is conveyed overland a distance of 200 feet or less from the project to the ESA, or conveyed in a pipe or open channel any distance as an isolated flow from the project to the ESA (i.e. not commingled with flows from adjacent lands). ☐ Yes ☐ No
8. **New development or redevelopment projects of a retail gasoline outlet (RGO) that create and/or replaces 5,000 square feet of impervious surface.** The development project meets the following criteria: (a) 5,000 square feet or more or (b) has a projected Average Daily Traffic (ADT) of 100 or more vehicles per day. ☐ Yes ☐ No
9. **New development or redevelopment projects of an automotive repair shops that creates and/or replaces 5,000 square feet or more of impervious surfaces.** Development projects categorized in any one of Standard Industrial Classification (SIC) codes 5013, 5014, 5541, 7532-7534, or 7536-7539. ☐ Yes ☐ No
10. **Other Pollutant Generating Project.** The project is not covered in the categories above, results in the disturbance of one or more acres of land and is expected to generate pollutants post construction, such as fertilizers and pesticides. This does not include projects creating less than 5,000 sf of impervious surface and where added landscaping does not require regular use of pesticides and fertilizers, such as slope stabilization using native plants. Calculation of the square footage of impervious surface need not include linear pathways that are for infrequent vehicle use, such as emergency maintenance access or bicycle pedestrian use, if they are built with pervious surfaces of if they sheet flow to surrounding pervious surfaces. ☐ Yes ☐ No

PART F: Select the appropriate category based on the outcomes of PART C through PART E.

1. The project is **NOT SUBJECT TO PERMANENT STORM WATER REQUIREMENTS.** ☐
2. The project is a **STANDARD DEVELOPMENT PROJECT.** Site design and source control BMP requirements apply. See the [Storm Water Standards Manual](#) for guidance. ☐
3. The project is **PDP EXEMPT.** Site design and source control BMP requirements apply. See the [Storm Water Standards Manual](#) for guidance. ☐
4. The project is a **PRIORITY DEVELOPMENT PROJECT.** Site design, source control, and structural pollutant control BMP requirements apply. See the [Storm Water Standards Manual](#) for guidance on determining if project requires a hydromodification plan management ☐

Name of Owner or Agent (Please Print)

Title

Signature

Date

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Appendix A: Submittal Templates

Applicability of Permanent, Post-Construction Storm Water BMP Requirements		Form I-1
Project Identification		
Project Name: 5228 Chelsea Street		
Permit Application Number: 502954		Date: 01-18-2017
Determination of Requirements		
<p>The purpose of this form is to identify permanent, post-construction requirements that apply to the project. This form serves as a short <u>summary</u> of applicable requirements, in some cases referencing separate forms that will serve as the backup for the determination of requirements.</p> <p>Answer each step below, starting with Step 1 and progressing through each step until reaching "Stop". Refer to Part 1 of Storm Water Standards sections and/or separate forms referenced in each step below.</p>		
Step	Answer	Progression
Step 1: Is the project a "development project"? See Section 1.3 of the BMP Design Manual (Part 1 of Storm Water Standards) for guidance.	<input checked="" type="checkbox"/> Yes	Go to Step 2.
	<input type="checkbox"/> No	Stop. Permanent BMP requirements do not apply. No SWQMP will be required. Provide discussion below.
Discussion / justification if the project is <u>not</u> a "development project" (e.g., the project includes <u>only</u> interior remodels within an existing building):		
Step 2: Is the project a Standard Project, Priority Development Project (PDP), or exception to PDP definitions? To answer this item, see Section 1.4 of the BMP Design Manual (Part 1 of Storm Water Standards) <u>in its entirety</u> for guidance, AND complete Storm Water Requirements Applicability Checklist.	<input type="checkbox"/> Standard Project	Stop. Standard Project requirements apply.
	<input checked="" type="checkbox"/> PDP	PDP requirements apply, including PDP SWQMP. Go to Step 3.
	<input type="checkbox"/> PDP Exempt	Stop. Standard Project requirements apply. Provide discussion and list any additional requirements below.
Discussion / justification, and additional requirements for exceptions to PDP definitions, if applicable:		

Appendix A: Submittal Templates

Form I-1 Page 2		
Step	Answer	Progression
Step 3. Is the project subject to earlier PDP requirements due to a prior lawful approval? See Section 1.10 of the BMP Design Manual (Part 1 of Storm Water Standards) for guidance.	<input type="checkbox"/> Yes	Consult the City Engineer to determine requirements. Provide discussion and identify requirements below. Go to Step 4.
	<input checked="" type="checkbox"/> No	BMP Design Manual PDP requirements apply. Go to Step 4.
Discussion / justification of prior lawful approval, and identify requirements (<u>not required if prior lawful approval does not apply</u>):		
Step 4. Do hydromodification control requirements apply? See Section 1.6 of the BMP Design Manual (Part 1 of Storm Water Standards) for guidance.	<input checked="" type="checkbox"/> Yes	PDP structural BMPs required for pollutant control (Chapter 5) and hydromodification control (Chapter 6). Go to Step 5.
	<input type="checkbox"/> No	Stop. PDP structural BMPs required for pollutant control (Chapter 5) only. Provide brief discussion of exemption to hydromodification control below.
Discussion / justification if hydromodification control requirements do <u>not</u> apply:		
Step 5. Does protection of critical coarse sediment yield areas apply? See Section 6.2 of the BMP Design Manual (Part 1 of Storm Water Standards) for guidance.	<input type="checkbox"/> Yes	Management measures required for protection of critical coarse sediment yield areas (Chapter 6.2). Stop.
	<input checked="" type="checkbox"/> No	Management measures not required for protection of critical coarse sediment yield areas. Provide brief discussion below. Stop.
Discussion / justification if protection of critical coarse sediment yield areas does <u>not</u> apply:		

Appendix A: Submittal Templates

Site Information Checklist For PDPs		Form I-3B
Project Summary Information		
Project Name	5229 Chelsea Street	
Project Address	5228 Chelsea Street San Diego, Ca 92037	
Assessor's Parcel Number(s) (APN(s))	415-062-10	
Permit Application Number	502954	
Project Watershed	Select One: <input type="checkbox"/> San Dieguito River <input checked="" type="checkbox"/> Penasquitos <input type="checkbox"/> Mission Bay <input type="checkbox"/> San Diego River <input type="checkbox"/> San Diego Bay <input type="checkbox"/> Tijuana River <div style="text-align: right; margin-top: -20px;">Pacific Ocean</div>	
Hydrologic subarea name with Numeric Identifier up to two decimal places (9XX.XX)	906.30	
Project Area (total area of Assessor's Parcel(s) associated with the project or total area of the right-of-way)	0.2040 Acres (8888 Square Feet)	
Area to be disturbed by the project (Project Footprint)	0.2040 Acres (8888 Square Feet)	
Project Proposed Impervious Area (subset of Project Footprint)	0.1328 Acres (5783 Square Feet)	
Project Proposed Pervious Area (subset of Project Footprint)	0.0713 Acres (3105 Square Feet)	
Note: Proposed Impervious Area + Proposed Pervious Area = Area to be Disturbed by the Project. This may be less than the Project Area.		
The proposed increase or decrease in impervious area in the proposed condition as compared to the pre-project condition.	65.4 %	

Appendix A: Submittal Templates

Form I-3B Page 2 of 11	
Description of Existing Site Condition and Drainage Patterns	
Current Status of the Site (select all that apply):	<input checked="" type="checkbox"/> Existing development <input type="checkbox"/> Previously graded but not built out <input type="checkbox"/> Agricultural or other non-impervious use <input type="checkbox"/> Vacant, undeveloped/natural Description / Additional Information:
Existing Land Cover Includes (select all that apply):	<input checked="" type="checkbox"/> Vegetative Cover <input type="checkbox"/> Non-Vegetated Pervious Areas <input checked="" type="checkbox"/> Impervious Areas Description / Additional Information:
Underlying Soil belongs to Hydrologic Soil Group (select all that apply):	<input type="checkbox"/> NRCS Type A <input type="checkbox"/> NRCS Type B <input type="checkbox"/> NRCS Type C <input checked="" type="checkbox"/> NRCS Type D
Approximate Depth to Groundwater (GW):	<input type="checkbox"/> GW Depth < 5 feet <input type="checkbox"/> 5 feet < GW Depth < 10 feet <input type="checkbox"/> 10 feet < GW Depth < 20 feet <input checked="" type="checkbox"/> GW Depth > 20 feet
Existing Natural Hydrologic Features (select all that apply):	<input type="checkbox"/> Watercourses <input type="checkbox"/> Seeps <input type="checkbox"/> Springs <input type="checkbox"/> Wetlands <input type="checkbox"/> None Description / Additional Information: <p style="margin-left: 40px;">ocean cliff at rear of property</p>

Form I-3B Page 3 of 11
<p align="center">Description of Existing Site Topography and Drainage:</p> <p>How is storm water runoff conveyed from the site? At a minimum, this description should answer:</p> <ol style="list-style-type: none"> 1. Whether existing drainage conveyance is natural or urban; 2. If runoff from offsite is conveyed through the site? If yes, quantification of all offsite drainage areas, design flows, and locations where offsite flows enter the project site and summarize how such flows are conveyed through the site; 3. Provide details regarding existing project site drainage conveyance network, including storm drains, concrete channels, swales, detention facilities, storm water treatment facilities, and natural and constructed channels; 4. Identify all discharge locations from the existing project along with a summary of the conveyance system size and capacity for each of the discharge locations. Provide summary of the pre-project drainage areas and design flows to each of the existing runoff discharge locations.
<p align="center">Description / Additional Information:</p> <p>The existing site consists of a single family home, hardscape and landscape. The site drains west to east and to the public road know as Chelsea Street. This drainage is consisted to be urban in nature.</p> <p>There is no offsite drainage entering the site.</p> <p>On site drainage is collected off the roof and landscaped areas and is piped to an in-line treatment structure and then via sidewalk underdrains to the public street.</p> <p>For discharge locations for the existing storm water see the hydrology study in Attached 5 of this report.</p>

Appendix A: Submittal Templates

Form I-3B Page 4 of 11
Description of Proposed Site Development and Drainage Patterns
<p>Project Description / Proposed Land Use and/or Activities:</p> <p>The proposed work to be done will consist of remolding the house, revising some of the hardscape and storm drain structures to continue to direct the storm water to the public street.</p>
<p>List/describe proposed impervious features of the project (e.g., buildings, roadways, parking lots, courtyards, athletic courts, other impervious features):</p> <p>Impervious features consist of the structure's roof, garage, driveway and patios.</p>
<p>List/describe proposed pervious features of the project (e.g., landscape areas):</p> <p>Some areas of existing landscaping will remain and some landscaping will be added.</p>
<p>Does the project include grading and changes to site topography?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Description / Additional Information:</p> <p>Minor grading will take place. The site is basically flat and slopes gently to the public street. The cliffs at the rear of the site will not receive any storm runoff other than what falls on the cliff face.</p>

Form I-3B Page 5 of 11

Does the project include changes to site drainage (e.g., installation of new storm water conveyance systems)?

☒ Yes

☐ No

If yes, provide details regarding the proposed project site drainage conveyance network, including storm drains, concrete channels, swales, detention facilities, storm water treatment facilities, natural and constructed channels, and the method for conveying offsite flows through or around the proposed project site. Identify all discharge locations from the proposed project site along with a summary of the conveyance system size and capacity for each of the discharge locations. Provide a summary of pre and post-project drainage areas and design flows to each of the runoff discharge locations. Reference the drainage study for detailed calculations.

Description / Additional Information:

The final destination of the storm water will not change.
a new storm drain pipe system will be installed to take
storm water from the rear of the site to the public
street.

Appendix A: Submittal Templates

Form I-3B Page 6 of 11

Identify whether any of the following features, activities, and/or pollutant source areas will be present (select all that apply):

- ☒ On-site storm drain inlets
- ☐ Interior floor drains and elevator shaft sump pumps
- ☐ Interior parking garages
- ☐ Need for future indoor & structural pest control
- ☒ Landscape/Outdoor Pesticide Use
- ☒ Pools, spas, ponds, decorative fountains, and other water features
- ☐ Food service
- ☐ Refuse areas
- ☐ Industrial processes
- ☐ Outdoor storage of equipment or materials
- ☐ Vehicle and Equipment Cleaning
- ☐ Vehicle/Equipment Repair and Maintenance
- ☐ Fuel Dispensing Areas
- ☐ Loading Docks
- ☒ Fire Sprinkler Test Water
- ☒ Miscellaneous Drain or Wash Water
- ☒ Plazas, sidewalks, and parking lots
- ☐ Large Trash Generating Facilities
- ☐ Animal Facilities
- ☐ Plant Nurseries and Garden Centers
- ☐ Automotive-related Uses

Description / Additional Information:

Form I-3B Page 7 of 11	
Identification and Narrative of Receiving Water	
<p>Narrative describing flow path from discharge location(s), through urban storm conveyance system, to receiving creeks, rivers, and lagoons and ultimate discharge location to Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable)</p> <p>The discharge location for this project is the south gutter Chelsea Street. The storm water flows in the south gutter of Chelsea Street northwesterly to the intersection with Sea Ridge Drive. Here the storm water flows in the south gutter of Sea Ridge Drive to a curb inlet located at the intersection of Sea Ridge Drive and Linda Way (west end). This inlet discharges to the Pacific Ocean via an underground storm drain. A hardened channel all the way.</p>	
<p>Provide a summary of all beneficial uses of receiving waters downstream of the project discharge locations.</p> <p>Pacific Ocean:</p>	
<p>Identify all ASBS (areas of special biological significance) receiving waters downstream of the project discharge locations.</p> <p>None</p>	
<p>Provide distance from project outfall location to impaired or sensitive receiving waters.</p> <p>1,450 feet to Pacific Ocean</p>	
<p>Summarize information regarding the proximity of the permanent, post-construction storm water BMPs to the City's Multi-Habitat Planning Area and environmentally sensitive lands</p> <p>Although this project sits in or adjacent to an environmentally sensitive lands, the storm water discharges north of this area via storm drain pipe.</p>	

Appendix A: Submittal Templates

Form I-3B Page 8 of 11			
Identification of Receiving Water Pollutants of Concern			
List any 303(d) impaired water bodies within the path of storm water from the project site to the Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable), identify the pollutant(s)/stressors causing impairment, and identify any TMDLs and/or Highest Priority Pollutants from the WQIP for the impaired water bodies:			
303(d) Impaired Water Body	Pollutant(s)/Stressor(s)	TMDLs/ WQIP Highest Priority Pollutant	
Pacific Ocean			
Identification of Project Site Pollutants*			
<p>*Identification of project site pollutants is only required if flow-thru treatment BMPs are implemented onsite in lieu of retention or biofiltration BMPs (note the project must also participate in an alternative compliance program unless prior lawful approval to meet earlier PDP requirements is demonstrated)</p> <p>Identify pollutants anticipated from the project site based on all proposed use(s) of the site (see BMP Design Manual (Part 1 of Storm Water Standards) Appendix B.6):</p>			
Pollutant	Not Applicable to the Project Site	Anticipated from the Project Site	Also a Receiving Water Pollutant of Concern
Sediment			
Nutrients			
Heavy Metals			
Organic Compounds			
Trash & Debris			
Oxygen Demanding Substances			
Oil & Grease			
Bacteria & Viruses			
Pesticides			

Form I-3B Page 9 of 11	
Hydromodification Management Requirements	
<p>Do hydromodification management requirements apply (see Section 1.6 of the BMP Design Manual)?</p> <p><input type="checkbox"/> Yes, hydromodification management flow control structural BMPs required.</p> <p><input type="checkbox"/> No, the project will discharge runoff directly to existing underground storm drains discharging directly to water storage reservoirs, lakes, enclosed embayments, or the Pacific Ocean.</p> <p><input checked="" type="checkbox"/> No, the project will discharge runoff directly to conveyance channels whose bed and bank are concrete-lined all the way from the point of discharge to water storage reservoirs, lakes, enclosed embayments, or the Pacific Ocean.</p> <p><input type="checkbox"/> No, the project will discharge runoff directly to an area identified as appropriate for an exemption by the WMAA for the watershed in which the project resides.</p> <p>Description / Additional Information (to be provided if a 'No' answer has been selected above):</p> <p>The discharge location for this project is the south gutter Chelsea Street. The storm water flows in the south gutter of Chelsea Street northwesterly to the intersection with Sea Ridge Drive. Here the storm water flows in the south gutter of Sea Ridge Drive to a curb inlet located at the intersection of Sea Ridge Drive and Linda Way (west end). This inlet discharges to the Pacific Ocean via an underground storm drain. A hardened channel all the way.</p>	
Critical Coarse Sediment Yield Areas*	
*This Section only required if hydromodification management requirements apply	
<p>Based on Section 6.2 and Appendix H does CCSYA exist on the project footprint or in the upstream area draining through the project footprint?</p> <p><input type="checkbox"/> Yes</p> <p><input checked="" type="checkbox"/> No</p> <p>Discussion / Additional Information:</p>	

Appendix A: Submittal Templates

Form I-3B Page 10 of 11
Flow Control for Post-Project Runoff*
*This Section only required if hydromodification management requirements apply
List and describe point(s) of compliance (POCs) for flow control for hydromodification management (see Section 6.3.1). For each POC, provide a POC identification name or number correlating to the project's HMP Exhibit and a receiving channel identification name or number correlating to the project's HMP Exhibit.
N/A
Has a geomorphic assessment been performed for the receiving channel(s)? <input type="checkbox"/> No, the low flow threshold is 0.1Q2 (default low flow threshold) <input type="checkbox"/> Yes, the result is the low flow threshold is 0.1Q2 <input type="checkbox"/> Yes, the result is the low flow threshold is 0.3Q2 <input type="checkbox"/> Yes, the result is the low flow threshold is 0.5Q2
If a geomorphic assessment has been performed, provide title, date, and preparer:
N/A
Discussion / Additional Information: (optional)

Form I-3B Page 11 of 11	
Other Site Requirements and Constraints	
<p>When applicable, list other site requirements or constraints that will influence storm water management design, such as zoning requirements including setbacks and open space, or local codes governing minimum street width, sidewalk construction, allowable pavement types, and drainage requirements.</p> <p>Ocean cliffs will not have storm water flow.</p>	
Optional Additional Information or Continuation of Previous Sections As Needed	
<p>This space provided for additional information or continuation of information from previous sections as needed.</p>	

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Appendix A: Submittal Templates

Source Control BMP Checklist for All Development Projects		Form I-4	
Source Control BMPs			
All development projects must implement source control BMPs SC-1 through SC-6 where applicable and feasible. See Chapter 4 and Appendix E of the BMP Design Manual (Part 1 of the Storm Water Standards) for information to implement source control BMPs shown in this checklist.			
Answer each category below pursuant to the following.			
<ul style="list-style-type: none"> • "Yes" means the project will implement the source control BMP as described in Chapter 4 and/or Appendix E of the BMP Design Manual. Discussion / justification is not required. • "No" means the BMP is applicable to the project but it is not feasible to implement. Discussion / justification must be provided. • "N/A" means the BMP is not applicable at the project site because the project does not include the feature that is addressed by the BMP (e.g., the project has no outdoor materials storage areas). Discussion / justification may be provided. 			
Source Control Requirement	Applied?		
SC-1 Prevention of Illicit Discharges into the MS4	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Discussion / justification if SC-1 not implemented:			
SC-2 Storm Drain Stenciling or Signage	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Discussion / justification if SC-2 not implemented:			
Landscape inlets not open to the public.			
SC-3 Protect Outdoor Materials Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Discussion / justification if SC-3 not implemented:			
SC-4 Protect Materials Stored in Outdoor Work Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Discussion / justification if SC-4 not implemented:			
SC-5 Protect Trash Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Discussion / justification if SC-5 not implemented:			

Appendix A: Submittal Templates

Form I-4 Page 2 of 2			
Source Control Requirement	Applied?		
SC-6 Additional BMPs Based on Potential Sources of Runoff Pollutants (must answer for each source listed below)			
On-site storm drain inlets	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Interior floor drains and elevator shaft sump pumps	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Interior parking garages	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Need for future indoor & structural pest control	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Landscape/Outdoor Pesticide Use	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Pools, spas, ponds, decorative fountains, and other water features	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Food service	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Refuse areas	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Industrial processes	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Outdoor storage of equipment or materials	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Vehicle/Equipment Repair and Maintenance	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Fuel Dispensing Areas	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Loading Docks	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Fire Sprinkler Test Water	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Miscellaneous Drain or Wash Water	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Plazas, sidewalks, and parking lots	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
SC-6A: Large Trash Generating Facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
SC-6B: Animal Facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
SC-6C: Plant Nurseries and Garden Centers	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
SC-6D: Automotive-related Uses	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Discussion / justification if SC-6 not implemented. Clearly identify which sources of runoff pollutants are discussed. Justification must be provided for <u>all</u> "No" answers shown above.			

Site Design BMP Checklist for All Development Projects		Form I-5	
Site Design BMPs			
<p>All development projects must implement site design BMPs SD-1 through SD-8 where applicable and feasible. See Chapter 4 and Appendix E of the BMP Design Manual (Part 1 of Storm Water Standards) for information to implement site design BMPs shown in this checklist.</p> <p>Answer each category below pursuant to the following.</p> <ul style="list-style-type: none"> • "Yes" means the project will implement the site design BMP as described in Chapter 4 and/or Appendix E of the BMP Design Manual. Discussion / justification is not required. • "No" means the BMP is applicable to the project but it is not feasible to implement. Discussion / justification must be provided. • "N/A" means the BMP is not applicable at the project site because the project does not include the feature that is addressed by the BMP (e.g., the project site has no existing natural areas to conserve). Discussion / justification may be provided. <p>A site map with implemented site design BMPs must be included at the end of this checklist.</p>			
Site Design Requirement		Applied?	
SD-1 Maintain Natural Drainage Pathways and Hydrologic Features		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A
Discussion / justification if SD-1 not implemented:			
1-1 Are existing natural drainage pathways and hydrologic features mapped on the site map?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1-2 Are trees implemented? If yes, are they shown on the site map?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1-3 Implemented trees meet the design criteria in SD-1 Fact Sheet (e.g. soil volume, maximum credit, etc.)?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1-4 Is tree credit volume calculated using Appendix B.2.2.1 and SD-1 Fact Sheet in Appendix E?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
SD-2 Have natural areas, soils and vegetation been conserved?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<p>Discussion / justification if SD-2 not implemented:</p> <p>Trees will be part of the landscape plan but will not be used in any DCV calculation.</p> <p>The exisitng single family home has no remaining natural landscape.</p>			
Form I-5 Page 2 of 4			

Appendix A: Submittal Templates

Site Design Requirement	Applied?		
SD-3 Minimize Impervious Area	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Discussion / justification if SD-3 not implemented:			
SD-4 Minimize Soil Compaction	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Discussion / justification if SD-4 not implemented:			
SD-5 Impervious Area Dispersion	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Discussion / justification if SD-5 not implemented:			
<p>Site constraints do not allow for much diversion of storm water. Landscaped areas will drain to inlets and the storm water pumped the street.</p>			
5-1 Is the pervious area receiving runoff from impervious area identified on the site map?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
5-2 Does the pervious area satisfy the design criteria in SD-5 Fact Sheet in Appendix E (e.g. maximum slope, minimum length, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
5-3 Is impervious area dispersion credit volume calculated using Appendix B.2.1.1 and SD-5 Fact Sheet in Appendix E?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

Appendix A: Submittal Templates

Form I-5 Page 3 of 4			
Site Design Requirement	Applied?		
SD-6 Runoff Collection	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Discussion / justification if SD-6 not implemented:			
6a-1 Are green roofs implemented in accordance with design criteria in SD-6A Fact Sheet? If yes, are they shown on the site map?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
6a-2 Is green roof credit volume calculated using Appendix B.2.1.2 and SD-6A Fact Sheet in Appendix E?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
6b-1 Are permeable pavements implemented in accordance with design criteria in SD-6B Fact Sheet? If yes, are they shown on the site map?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
6b-2 Is permeable pavement credit volume calculated using Appendix B.2.1.3 and SD-6B Fact Sheet in Appendix E?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
SD-7 Landscaping with Native or Drought Tolerant Species	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Discussion / justification if SD-7 not implemented:			
SD-8 Harvesting and Using Precipitation	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Discussion / justification if SD-8 not implemented:			
8-1 Are rain barrels implemented in accordance with design criteria in SD-8 Fact Sheet? If yes, are they shown on the site map?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
8-2 Is rain barrel credit volume calculated using Appendix B.2.2.2 and SD-8 Fact Sheet in Appendix E?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

Appendix A: Submittal Templates

Form I-5 Page 4 of 4

Insert Site Map with all site design BMPs identified:

Summary of PDP Structural BMPs	Form I-6
PDP Structural BMPs	
<p>All PDPs must implement structural BMPs for storm water pollutant control (see Chapter 5 of the BMP Design Manual, Part 1 of Storm Water Standards). Selection of PDP structural BMPs for storm water pollutant control must be based on the selection process described in Chapter 5. PDPs subject to hydromodification management requirements must also implement structural BMPs for flow control for hydromodification management (see Chapter 6 of the BMP Design Manual). Both storm water pollutant control and flow control for hydromodification management can be achieved within the same structural BMP(s).</p> <p>PDP structural BMPs must be verified by the City at the completion of construction. This includes requiring the project owner or project owner's representative to certify construction of the structural BMPs (complete Form DS-563). PDP structural BMPs must be maintained into perpetuity (see Chapter 7 of the BMP Design Manual).</p> <p>Use this form to provide narrative description of the general strategy for structural BMP implementation at the project site in the box below. Then complete the PDP structural BMP summary information sheet (page 3 of this form) for each structural BMP within the project (copy the BMP summary information page as many times as needed to provide summary information for each individual structural BMP).</p> <p>Describe the general strategy for structural BMP implementation at the site. This information must describe how the steps for selecting and designing storm water pollutant control BMPs presented in Section 5.1 of the BMP Design Manual were followed, and the results (type of BMPs selected). For projects requiring hydromodification flow control BMPs, indicate whether pollutant control and flow control BMPs are integrated or separate.</p> <p>Storm water to flow through landscaped areas and then enter storm drain inlets or flow over the curb to the existing gutter in Chelsea Street.</p> <p>(Continue on page 2 as necessary.)</p>	


Appendix A: Submittal Templates

Form I-6 Page 2 of X
(Page reserved for continuation of description of general strategy for structural BMP implementation at the site)
(Continued from page 1)

Form I-6 Page 3 of X (Copy as many as needed)	
Structural BMP Summary Information	
Structural BMP ID No.	
Construction Plan Sheet No.	
<p>Type of structural BMP:</p> <p><input type="radio"/> Retention by harvest and use (HU-1)</p> <p><input type="radio"/> Retention by infiltration basin (INF-1)</p> <p><input type="radio"/> Retention by bioretention (INF-2)</p> <p><input type="radio"/> Retention by permeable pavement (INF-3)</p> <p><input type="radio"/> Partial retention by biofiltration with partial retention (PR-1)</p> <p><input checked="" type="radio"/> Biofiltration (BF-1)</p> <p><input type="radio"/> Flow-thru treatment control with prior lawful approval to meet earlier PDP requirements (provide (BMP type/description in discussion section below)</p> <p>Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or</p> <p><input type="radio"/> biofiltration BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below)</p> <p><input type="radio"/> Flow-thru treatment control with alternative compliance (provide BMP type/description in</p> <p><input type="radio"/> Detention pond or vault for hydromodification management</p> <p><input type="radio"/> Other (describe in discussion section below)</p>	
<p>Purpose:</p> <p><input checked="" type="radio"/> Pollutant control only</p> <p><input type="radio"/> Hydromodification control only</p> <p><input type="radio"/> Combined pollutant control and hydromodification control</p> <p><input type="radio"/> Pre-treatment/forebay for another structural BMP</p> <p><input type="radio"/> Other (describe in discussion section below)</p>	
Who will certify construction of this BMP? Provide name and contact information for the party responsible to sign BMP verification form DS-563	San Diego Land Surveying & Engineering, Inc Michael L. Smith, Project Engineer, 858-565-8362
Who will be the final owner of this BMP?	5310C LLC
Who will maintain this BMP into perpetuity?	5310C LLC
What is the funding mechanism for maintenance?	5310C LLC

Appendix A: Submittal Templates

Form I-6 Page 4 of X (Copy as many as needed)	
Structural BMP ID No.	Landscaping
Construction Plan Sheet No.	
Discussion (as needed):	
Landscaped areas	

 <small>THE CITY OF SAN DIEGO</small>	City of San Diego Development Services 1222 First Ave., MD-302 San Diego, CA 92101 (619) 446-5000	Permanent BMP Construction Self Certification Form	FORM DS-563 January 2016
Date Prepared:		Project No.:	
Project Applicant:		Phone:	
Project Address:			
Project Engineer:		Phone:	
<p>The purpose of this form is to verify that the site improvements for the project, identified above, have been constructed in conformance with the approved Storm Water Quality Management Plan (SWQMP) documents and drawings.</p> <p>This form must be completed by the engineer and submitted prior to final inspection of the construction permit. Completion and submittal of this form is required for all new development and redevelopment projects in order to comply with the City's Storm Water ordinances and NDPES Permit Order No. R9-2013-0001 as amended by R9-2015-0001 and R9-2015-0100. Final inspection for occupancy and/or release of grading or public improvement bonds may be delayed if this form is not submitted and approved by the City of San Diego.</p>			
<p>CERTIFICATION:</p> <p>As the professional in responsible charge for the design of the above project, I certify that I have inspected all constructed Low Impact Development (LID) site design, source control and structural BMP's required per the approved SWQMP and Construction Permit No. _____; and that said BMP's have been constructed in compliance with the approved plans and all applicable specifications, permits, ordinances and Order No. R9-2013-0001 as amended by R9-2015-0001 and R9-2015-0100 of the San Diego Regional Water Quality Control Board.</p> <p>I understand that this BMP certification statement does not constitute an operation and maintenance verification.</p>			
Signature: _____ Date of Signature: _____ Printed Name: _____ Title: _____ Phone No. _____		<div style="border: 1px solid black; width: 300px; height: 150px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> Engineer's Stamp </div>	

DS-563 (01-16)

Attachment 1:

Backup for PDP Pollutant Control Form

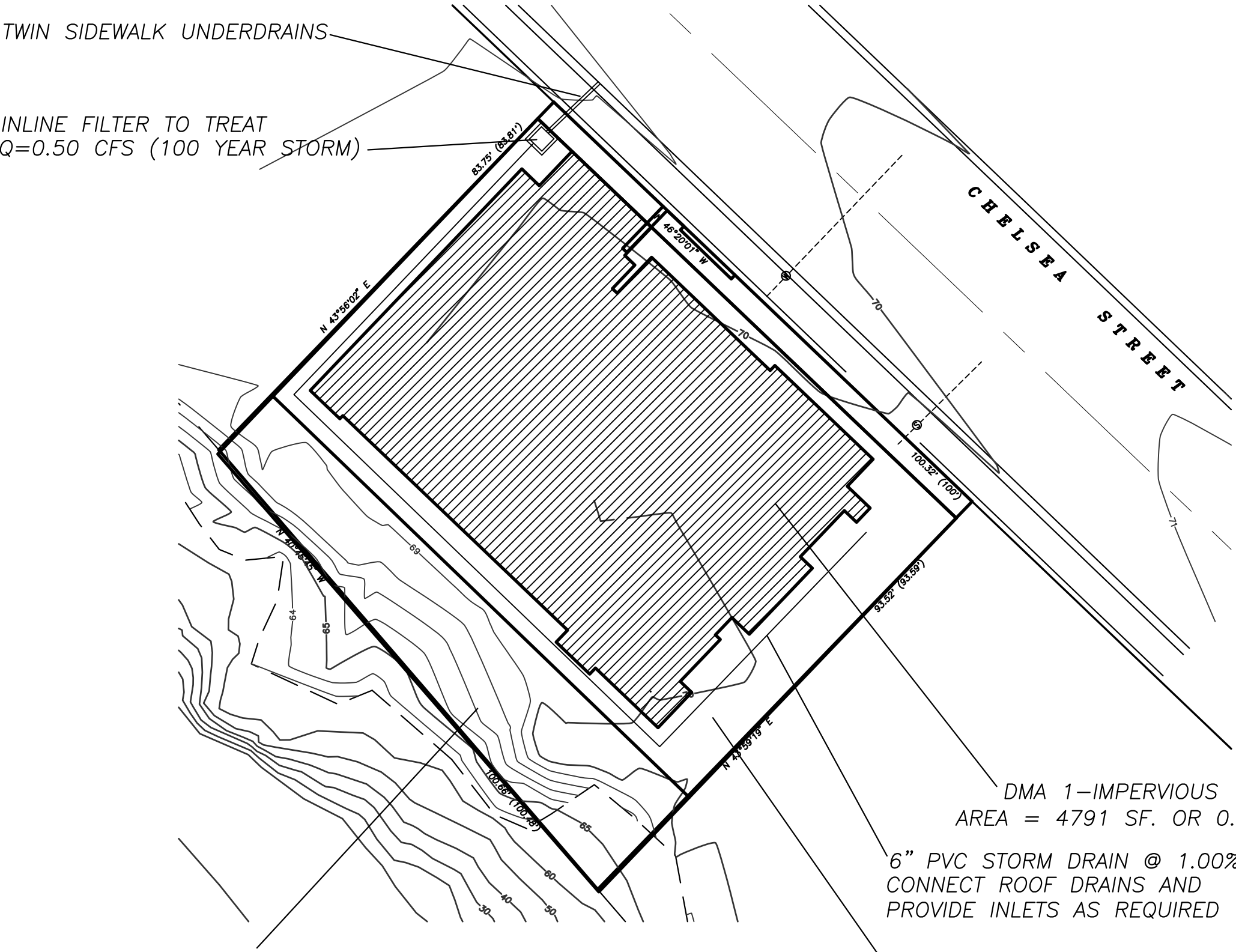
Appendix A: Submittal Templates

Indicate which Items are Included:

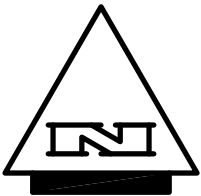
Attachment Sequence	Contents	Checklist
Attachment 1a	DMA Exhibit (Required) See DMA Exhibit Checklist.	<input type="checkbox"/> Included
Attachment 1b	Tabular Summary of DMAs Showing DMA ID matching DMA Exhibit, DMA Area, and DMA Type (Required)* *Provide table in this Attachment OR on DMA Exhibit in Attachment 1a	<input type="radio"/> Included on DMA Exhibit in Attachment 1a <input checked="" type="radio"/> Included as Attachment 1b, separate from DMA Exhibit
Attachment 1c	Form I-7, Harvest and Use Feasibility Screening Checklist (Required unless the entire project will use infiltration BMPs) Refer to Appendix B.3-1 of the BMP Design Manual to complete Form I-7.	<input type="radio"/> Included <input checked="" type="radio"/> Not included because the entire project will use infiltration BMPs
Attachment 1d	Form I-8, Categorization of Infiltration Feasibility Condition (Required unless the project will use harvest and use BMPs) Refer to Appendices C and D of the BMP Design Manual to complete Form I-8.	<input checked="" type="radio"/> Included <input type="radio"/> Not included because the entire project will use harvest and use BMPs
Attachment 1e	Pollutant Control BMP Design Worksheets / Calculations (Required) Refer to Appendices B and E of the BMP Design Manual for structural pollutant control BMP design guidelines and site design credit calculations	<input type="checkbox"/> Included

Attachment 1a:

DMA Exhibit



DMA EXHIBIT



SCALE 1" = 20'

PROJECT AREA
AREA = 8,888 SF. OR 0.2040 AC.

DMA 1
AREA = 4791 SF. OR 0.1100 AC.

DMA 2
AREA = 2,277 SF. OR 0.0523 AC.

DMA 3
AREA = 1,820 SF. OR 0.0418 AC.

IMPERVIOUS AREA
53.9%

NOTES:	
SOIL GROUP	D
DEPTH TO GROUND WATER	>20 FEET
EXISTING NATURAL HYDROLOGIC FEATURES	NONE
CRITICAL COARSE SEDIMENT YIELD AREA	NONE
EXISTING TOPOGRAPHY	FLAT SITE
EXISTING IMPERVIOUS AREA	NOT SHOWN
PROPOSED GRADING	
PROPOSED IMPERVIOUS AREA	
DESIGN FEATURES	NONE
DMA BOUNDARIES	
DMA ID NUMBER/NAME	DMA 1
POTENTIAL POLLUTANT SOURCE AREA	SHOWN

Attachment 1b:

Tabular Summary of DMAs and Design Capture Volume Calculations

DMA 1	ROOF	4,791	SF	X	0.9	=	4,312
DMA 2	LANDS.	2,277	SF	X	0.1	=	228
TOTAL							4,540

$4540 / \text{TOTAL AREA } 7068 = 0.64$

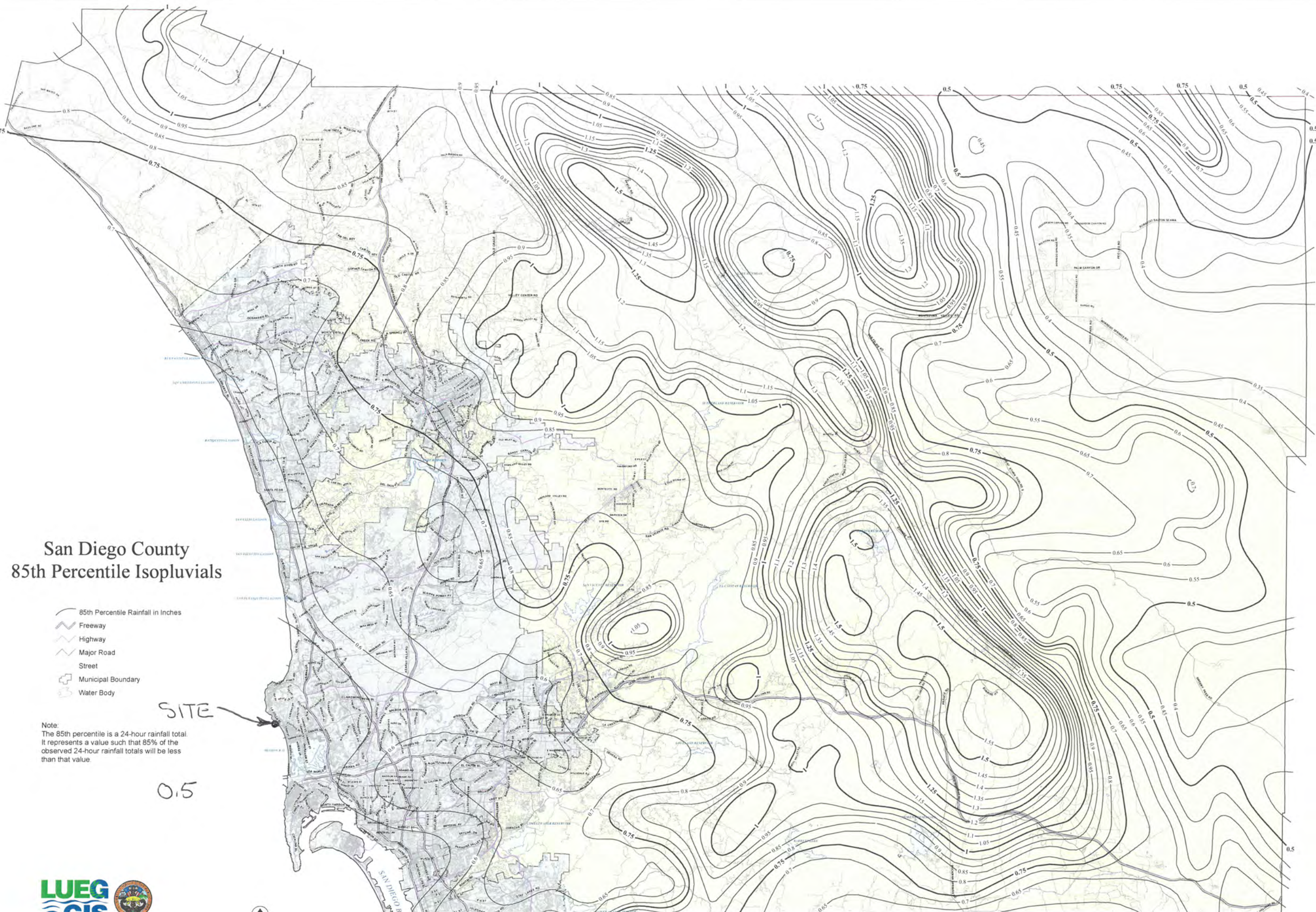
DMA 3 CLIFF 1,820 SF X N/A = N/A

Appendix B: Storm Water Pollutant Control Hydrologic Calculations and Sizing Methods

Worksheet B.2-1 DCV

Design Capture Volume		Worksheet B.2-1		
1	85 th percentile 24-hr storm depth from Figure B.1-1	d=	.5	inches
2	Area tributary to BMP (s)	A=	0.138	acres
3	Area weighted runoff factor (estimate using Appendix B.1.1 and B.2.1)	C=	.64	unitless
4	Trees Credit Volume	TCV=	0.000	cubic-feet
5	Rain barrels Credit Volume	RCV=	0.000	cubic-feet
6	Calculate DCV = $(3630 \times C \times d \times A) - TCV - RCV$	DCV=	160	cubic-feet

INSTALL INLINE FILTER TO TREAT STORM WATER BEFORE DISCHARGING
TO THE GUTTER OF CHELSEA STREET



San Diego County 85th Percentile Isopluvials

- 85th Percentile Rainfall in Inches
- Freeway
- Highway
- Major Road
- Street
- Municipal Boundary
- Water Body

Note:
The 85th percentile is a 24-hour rainfall total.
It represents a value such that 85% of the
observed 24-hour rainfall totals will be less
than that value.

Attachment 1c:

Harvest and Use Feasibility Screening Checklist

Appendix B: Storm Water Pollutant Control Hydrologic Calculations and Sizing Methods

Worksheet B.3-1. Harvest and Use Feasibility Screening

Harvest and Use Feasibility Screening		Worksheet B.3-1
<p>1. Is there a demand for harvested water (check all that apply) at the project site that is reliably present during the wet season?</p> <p><input checked="" type="checkbox"/> Toilet and urinal flushing</p> <p><input checked="" type="checkbox"/> Landscape irrigation</p> <p><input type="checkbox"/> Other: _____</p>		
<p>2. If there is a demand; estimate the anticipated average wet season demand over a period of 36 hours. Guidance for planning level demand calculations for toilet/urinal flushing and landscape irrigation is provided in Section B.3.2.</p> <p>[Provide a summary of calculations here]</p> <p>TOILET AND URINAL FLUSHING:</p> <p>UNITS X PEOPLE/UNIT X USE FAC. FROM TABLE B3-1 IN GAL/36 HOURS X GAL/CF</p> <p>1 5 9.3 0.1335 = 6.2 CF/36 H</p> <p>LANDSCAPING USE:</p> <p>MODERATE USE FACTOR = 1470 G/AC PER TABLE B3-3 X LANDSCAPE AREA OF</p> <p>0.0713 X GAL/CF 0.1355 = 14.2 CF/36 H</p> <p>TOTAL USE = 6.2 + 14.2 = 20.4 CF/36H</p>		
<p>3. Calculate the DCV using worksheet B-2.1.</p> <p>[Provide a results here]</p> <p>DCV = 160 CF</p>		
<p>3a. Is the 36-hour demand greater than or equal to the DCV?</p> <p>Yes / No \Rightarrow</p> <p>\Downarrow X</p>	<p>3b. Is the 36-hour demand greater than 0.25DCV but less than the full DCV?</p> <p>Yes / No \Rightarrow</p> <p>\Downarrow X</p>	<p>3c. Is the 36-hour demand less than 0.25DCV?</p> <p>Yes</p> <p>\Downarrow</p>
<p>Harvest and use appears to be feasible. Conduct more detailed evaluation and sizing calculations to confirm that DCV can be used at an adequate rate to meet drawdown criteria.</p>	<p>Harvest and use may be feasible. Conduct more detailed evaluation and sizing calculations to determine feasibility. Harvest and use may only be able to be used for a portion of the site, or (optionally) the storage may need to be upsized to meet long term capture targets while draining in longer than 36 hours.</p>	<p>Harvest and use is considered to be infeasible.</p> <p>X</p>

Attachment 1d:

Categorization of Infiltration Feasibility Conditions

This site sits on the cliffs of the Pacific Ocean. No infiltration can be allowed to undercut the stability of the cliffs. No storm runoff will be allowed to run-over the cliffs or infiltrate the area adjacent to the cliffs

Attachment 1e:

Pollutant Control BMP Design Worksheets

Attachment 2:

Backup for PDP Hydromodification Control Measures

N/A

See photograph of drainage coarse and
copy of City drawing of storm drain
pipe to Pacific Ocean.

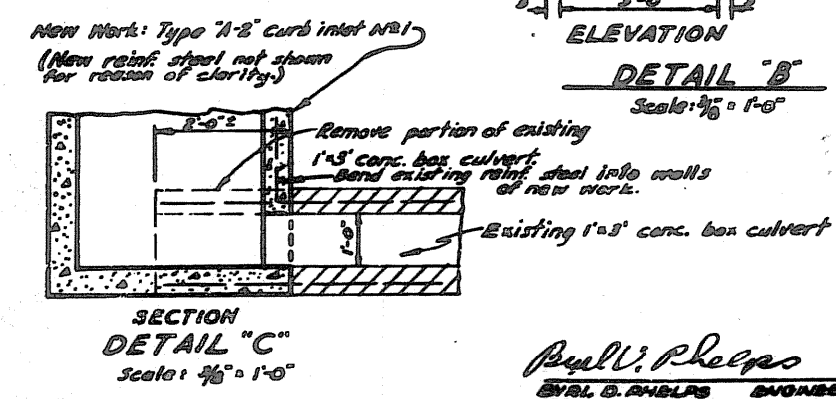
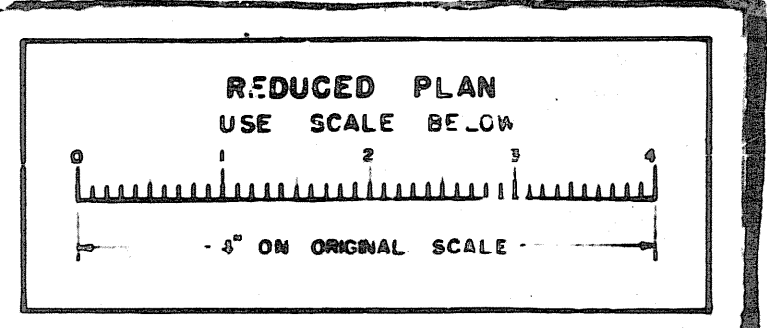
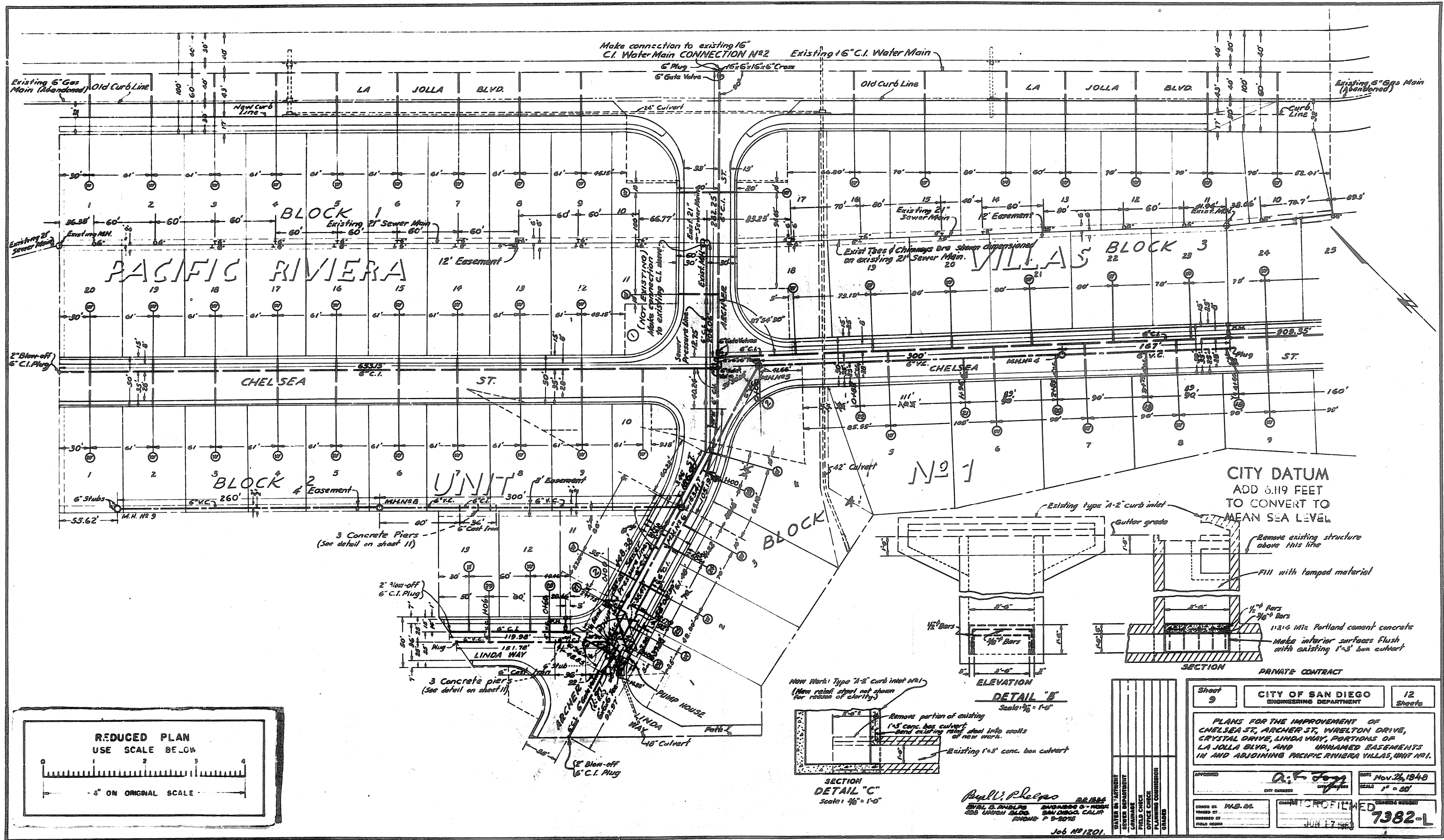


Google earth

© 2015 INEGI

© 2015 Google

10 ft



CITY DATUM
ADD 6.119 FEET
TO CONVERT TO
MEAN SEA LEVEL

Remove existing structure
above this line

Fill with tamped material

1 1/2" Min Portland cement concrete

Make interior surfaces flush
with existing 1'-3" box culvert

SECTION PRIVATE CONTRACT

Sheet 9	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	12 Sheets
PLANS FOR THE IMPROVEMENT OF CHELSEA ST, ARCHER ST, WRELTON DRIVE, CRYSTAL DRIVE, LINDA WAY, PORTIONS OF LA JOLLA BLVD, AND UNNAMED EASEMENTS IN AND ADJOINING PACIFIC RIVIERA VILLAS, UNIT N#1.		
APPROVED <i>A. J. Foy</i> CITY ENGINEER	DATE Nov. 24, 1949	SCALE 1" = 30'
CHECKED BY W.B. GIL PROJECT ENGINEER	RECORDED JUN 17 1950	7382-L
CONSTRUCTION	RECORD	W. O. No 23046
HAZARD	NO	NO
DATE DESIGNED 10-18-49	DATE CHECKED 11-18-49	DATE APPROVED 11-18-49

Paul W. Phelps
CIVIL ENGINEER
200 UNION BLVD.
SAN DIEGO, CALIF.
PHONE P 5-2015

Job No 1201

Appendix A: Submittal Templates

Indicate which Items are Included:

Attachment Sequence	Contents	Checklist
Attachment 2a	Hydromodification Management Exhibit (Required) N/A	<input type="checkbox"/> Included See Hydromodification Management Exhibit Checklist.
Attachment 2b	Management of Critical Coarse Sediment Yield Areas (WMAA Exhibit is required, additional analyses are optional) See Section 6.2 of the BMP Design Manual. N/A	<input type="checkbox"/> Exhibit showing project drainage boundaries marked on WMAA Critical Coarse Sediment Yield Area Map (Required) Optional analyses for Critical Coarse Sediment Yield Area Determination <input type="checkbox"/> 6.2.1 Verification of Geomorphic Landscape Units Onsite <input type="checkbox"/> 6.2.2 Downstream Systems Sensitivity to Coarse Sediment <input type="checkbox"/> 6.2.3 Optional Additional Analysis of Potential Critical Coarse Sediment Yield Areas Onsite
Attachment 2c	Geomorphic Assessment of Receiving Channels (Optional) See Section 6.3.4 of the BMP Design Manual.	<input checked="" type="radio"/> Not Performed <input type="radio"/> Included <input checked="" type="radio"/> Submitted as separate stand-alone document
Attachment 2d	Flow Control Facility Design and Structural BMP Drawdown Calculations (Required) Overflow Design Summary for each structural BMP See Chapter 6 and Appendix G of the BMP Design Manual	<input checked="" type="radio"/> Not included <input type="radio"/> Included <input checked="" type="radio"/> Submitted as separate stand-alone document
Attachment 2e	Vector Control Plan (Required when structural BMPs will not drain in 96 hours)	<input type="radio"/> Included <input checked="" type="radio"/> Not required because BMPs will drain in less than 96 hours

Attachment 2a:

Hydromodification Management Exhibit

N/A

Attachment 2b:

Management of Critical Coarse Sediment Yield Area

N/A

Attachment 2c:

Geomorphic Assessment of Receiving Channels

N/A

Hardened channel full length of drainage coarse

Attachment 2d:

Flow Control Facility Design and Structural BMP
Drawdown Calculations

N/A

Attachment 2e:

Vector Control Plan

N/A

Attachment 3:

Structural BMP Maintenance Plan

N/A

residential landscaping

Attachment 3a:

Structural BMP Maintenance Thresholds and Actions

N/A

Attachment 3b:

Draft Maintenance Agreement

N/A

Attachment 4:

Copy of Plan Sheets Showing
Permanent Storm Water BMPs

Attachment 5:

Project's Drainage Report

Attachment 6:

Project's Geotechnical and
Groundwater Investigation Report