



County of San Diego
Stormwater Quality Management Plan (SWQMP)
For Priority Development Projects (PDPs)

Use for all PDPs (see Storm Water Intake Form, Part 4)



Project Information	
Project Name	Campo Dollar General
Project Address	31576 SR 94, Campo, CA 91906
Assessor's Parcel # (APN)	655-120-09
Permit # / Record ID	PDS2019-LDGRMJ-30250

Project Applicant / Project Proponent	
Name	David Church (NNN Retail Development)
Address	15882 Wakefield Lane, San Diego, CA 92127
Phone	(858) 354-0007
Email:	david@nnnretaildevelopment.com

SWQMP Preparer	
Name	Gregory O. Black
Company (if applicable)	Palmetto Engineering and Land Surveying
Address	4300 Ashe Road, #103
Phone	(661) 664-4806
Email:	goblack@palmels.com
PE Number (if applicable)	RCE 53592

Preparer's Certification	
<p>I understand that the County of San Diego has adopted minimum requirements for managing urban runoff, including storm water, from land development activities, as described in the County of San Diego BMP Design Manual. The BMP Design Manual is a design manual for compliance with local County of San Diego Watershed Protection Ordinance (Sections 67.801 et seq.) and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2013-0001, as amended by Order No. R9-2015-0001 and Order No. R9-2015-0100) requirements for storm water management.</p> <p>This SWQMP is intended to comply with applicable requirements of the BMP Design Manual. I certify that it has been completed to the best of my ability and accurately reflects the project being proposed and the applicable 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 SWQMP by County staff is confined to a review and does not relieve me as the person in charge of overseeing the selection and design of storm water BMPs for this project, of my responsibilities for project design.</p>	
Signature	Date July 5, 2021

COUNTY ACCEPTED	
SWQMP Approved By:	Approval Date:
* Note* Approval does not constitute compliance with regulatory requirements.	

Submittal Record: List the dates of SWQMP and plan submittals and updates. Briefly describe key changes from previous versions. If responding to plan check comments, note this in the entry and attach the responses as applicable.

No.	Date	Summary of Changes
Preliminary Design / Planning / CEQA		
1	Date	Initial Submittal
2	Date	Summary of Change
3	Date	Summary of Change
4	Date	Summary of Change
No.	Date	Summary of Change
Final Design		
1	12/6/2019	Initial Submittal
2	7/9/2020	Revisions to submittal per PD LD comments
3	11/16/2020	Revisions to submittal per PD LD 2nd Review Comments
4	3/30/2021	Revisions to submittal per PD LD 3rd Review Comments
5	5/20/2021	Revisions to submittal per PD LD 4th review comments
6	7/5/2021	Revisions to submittal per PD LD 5th review comments
Plan Changes		
1	Date	Initial Submittal
2	Date	Summary of Change
3	Date	Summary of Change
4	Date	Summary of Change
No.	Date	Summary of Change

PDP SWQMP Submittal Checklist

SWQMP Tables: All of the eight tables below must be completed.

<input checked="" type="checkbox"/> Table 1: Scope of SWQMP Submittal	Page 2
<input checked="" type="checkbox"/> Table 2: Baseline BMPs for Existing Natural Features and Proposed Features (Groups 1, 2, and 3)	Page 3
<input checked="" type="checkbox"/> Table 3: Baseline BMPs for Pollutant-generating Sources (Group 4)	Page 4
<input checked="" type="checkbox"/> Table 4: Infeasibility Justifications for Baseline BMPs	Page 5
<input checked="" type="checkbox"/> Table 5: DMA Structural Compliance Strategies and Documentation	Page 6
<input checked="" type="checkbox"/> Table 6: Critical Coarse Sediment Yield Area (CCSYA) Requirements	Page 7
<input checked="" type="checkbox"/> Table 7: Minimum Construction Stormwater BMPs	Page 8
<input checked="" type="checkbox"/> Table 8: Infeasibility Justifications for Construction BMPs.....	Page 9

SWQMP Attachments¹: Use the checklist below to identify which attachments will be included with this submittal. Attachments with boxes already checked () are required for all projects. The applicability of other attachments will be determined upon completing this form.

- Attachment 1: Storm Water Intake Form
- Attachment 2: DMA Exhibits and Construction Plan Sheets
- Attachment 3: Source Control BMP Worksheet
- Attachment 4: Previous SWQMP Submittals
- Attachment 5: Existing Site and Drainage Description
- Attachment 6: Documentation of DMAs without Structural BMPs
- Attachment 7: Documentation of DMAs with Structural Pollutant Control BMPs
- Attachment 8: Documentation of DMAs with Structural Hydromodification Management BMPs
- Attachment 9: Management of Critical Coarse Sediment Yield Areas
- Attachment 10: Installation Verification Form
- Attachment 11: BMP Maintenance Agreements and Plans
- Attachment 12: Documentation of Alternative Compliance Projects (ACPs)

After completing the remainder of this form, check the applicable SWQMP Attachment boxes to summarize your selections.

¹ All SWQMP attachments are available at www.sandiego.gov/stormwater under the Development Resources tab. Some attachments are presented out of order because they are shared between multiple SWQMP forms.

Table 1 – Scope of SWQMP Submittal

Select one option below that describes the scope of this SWQMP Submittal. Document your selection as indicated.	
SWQMP Scope	Required Documentation
<input checked="" type="checkbox"/> a. SWQMP addresses the entire project	No additional documentation.
<input type="checkbox"/> b. SWQMP implements requirements of an earlier master SWQMP submittal	Include a copy of the previous submittal as Attachment 4 .
<input type="checkbox"/> c. First of multiple SWQMP submittals	Use the spaces below to identify the elements addressed in this submittal and in future submittals.
<i>(1) Elements addressed in current submittal (streets, common areas, first project phase, etc.):</i>	
Grubbing of existing vegetation and top soil, rough grading, and final grading. Installation of wet utilities (on-site underground sewer septic system, domestic and irrigation water, and storm water). Installation of dry utilities (communications, electrical, and gas). Installation and construction of concrete curb and gutter, sidewalk, drive approach, building foundation, and other concrete structures. Placement and compaction of class 2 aggregate base for sidewalk and asphalt pavement and placement of asphalt concrete for parking lot area.	
<i>(2) Elements to be addressed in future submittal(s) (individual lots, future project phases, etc.):</i>	
No future submittals	

Table 2 – Baseline BMPs for Existing and Proposed Site Features

Site Features	BMP Implementation					
Select each feature that applies.	Describe BMP implementation for each selected site feature.					
Group 1: Existing Natural Site Features [See BMPDM Sections 4.3.1 and 4.3.2]						
	Maintain & conserve natural features		Establish buffers for waterbodies			
	Full	Partial	Full	Partial		
<input type="checkbox"/> Natural waterbodies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Natural storage reservoirs & drainage corridors	<input type="checkbox"/>	<input type="checkbox"/>				
<input checked="" type="checkbox"/> Natural areas, soils, & vegetation (incl. trees)	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Group 2: Common Impervious Outdoor Site Features [See BMPDM Sections 4.3.3 and 4.3.5]						
	Disperse impervious areas (See SD-B)		Use permeable materials (See SD-D)		Minimize impervious areas	
	Full	Partial	Full	Partial	<input checked="" type="checkbox"/> Check here to confirm that impervious surfaces have been minimized where applicable and feasible for all outdoor impervious areas. If not, explain in Table 4.	
<input type="checkbox"/> Streets and roads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Sidewalks & walkways	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Parking areas & lots	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Driveways	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Patios, decks, & courtyards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Hardcourt recreation areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Add impervious feature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Add impervious feature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Add impervious feature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Group 3: Other Outdoor Site Features [See BMPDM Sections 4.2.6, 4.3.4, 4.3.5, 4.3.7, and 4.3.8]						
<input checked="" type="checkbox"/> Rooftop areas	Disperse rooftop runoff (See SD-B)		Install green roofs (optional; See SD-C)		Use rain barrels to capture runoff (optional; See SD-E)	
	Full	Partial	Full	Partial	Full	Partial
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Landscaped areas	Use water-efficient landscaping (required)		Install efficient irrigation systems (required)		Minimize erosion of slopes and surfaces (required)	
	Full		Full		Full	
	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<input type="checkbox"/> Water features (pools, spas, etc.)	Provide a designated washing area		Drain feature to the sanitary sewer (if allowed)		Drain feature to a pervious area	
	Full	Partial	Full	Partial	Full	Partial
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: Justification is required in Table 4 for any feature not selecting at least one BMP (either full or partial implementation). For Group 2 features this means not selecting either SD-B or SD-D. Additional justifications may be required on request by County staff. Also use Table 4 to describe sources or BMPs other than those listed.

Table 3 –Baseline BMPs for Pollutant-generating Sources (Group 4)

A. Requirements for Documentation Select either or both as applicable.	Completion of Part B is <u>not</u> required because: <input type="checkbox"/> This is a Small Residential Project, OR <input type="checkbox"/> None of these sources or features is proposed.	<input checked="" type="checkbox"/> Source Control BMP Requirements Worksheet E.1-1 (SC in Appendix E of the BMP Design Manual) is included as Attachment 3 (optional unless requested by County staff).
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B. Sources and BMPs Select all proposed sources and features below. Then select the BMPs on the right to be implemented for each.							
	Plumb to sanitary sewer	Drain feature to a pervious area	Provide containment for spills and discharges	Prevent contact with rainfall	Isolate flows from adjacent areas	Prevent wind dispersal	Label with stencils or signs
Common Source Areas							
<input checked="" type="checkbox"/> Trash & Refuse Storage	<input checked="" type="checkbox"/>	---	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	---
<input checked="" type="checkbox"/> Materials & Equipment Storage	<input checked="" type="checkbox"/>	---	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	---
<input checked="" type="checkbox"/> Loading & Unloading	<input type="checkbox"/>	---	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---
<input type="checkbox"/> Fueling	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---
<input type="checkbox"/> Maintenance & Repair	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---
<input type="checkbox"/> Vehicle & Equipment Cleaning	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---
<input type="checkbox"/> Food Preparation or Service	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---
Distributed Features							
<input checked="" type="checkbox"/> Storm drain inlets & catch basins	---	---	---	---	---	---	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Interior floor drains and sumps	<input checked="" type="checkbox"/>	---	---	---	---	---	---
<input checked="" type="checkbox"/> Drain lines (air conditioning, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	---	---	---	---
<input checked="" type="checkbox"/> Fire test sprinkler discharges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---	---	---

Provide the following in Table 4: (1) justification of any source area or feature with NO BMPs selected, (2) justification of individual unselected BMPs *if requested by County staff*, and (3) identification of any proposed pollutant-generating sources and BMPs not listed here.

Note: Pollutant-generating sources and features may not discharge directly to the MS4. Discharging to any of the stormwater BMPs identified in Table 5 Part B is also discouraged. If doing so, however, the source or feature area must be included in applicable DCV calculations.

Table 4 – Explanations and Justifications for Table 2 and 3 Baseline BMPs

<input checked="" type="checkbox"/> Check here if no explanations or justifications for Table 2 or 3 BMPs are required.		
<ul style="list-style-type: none"> • Required Justifications: If NO BMPs are selected for a source or feature, justify why <u>all</u> BMPs are either not applicable or are infeasible. For Group 2 features NO BMPs means not selecting either SD-B or SD-D. • If Requested: Justify why individual BMPs will not be implemented or will only be partially implemented. • Additional Explanation: Describe any proposed features and/or BMPs not listed in Tables 2 or 3. 		
BMP-Feature Combination		Explanation
Feature	Feature	Explanation
BMP	BMP	
Feature	Feature	Explanation
BMP	BMP	
Feature	Feature	Explanation
BMP	BMP	
Feature	Feature	Explanation
BMP	BMP	
Feature	Feature	Explanation
BMP	BMP	
Feature	Feature	Explanation
BMP	BMP	
Feature	Feature	Explanation
BMP	BMP	

Table 5: DMA Structural Compliance Strategies and Documentation

Part A – Selection and Application Structural Performance Standards							
1. Selection of Standards (select one; see BMPDM Section 6.1)							
<input checked="" type="checkbox"/> a. Pollutant control + hydromodification <input type="checkbox"/> b. Pollutant control only (project is exempt from hydromodification requirements)							
2. Application of Structural Performance Standards (select one; see BMPDM Section 1.7)							
<input checked="" type="checkbox"/> New Development Projects: Standards apply to <u>all impervious surfaces</u> .							
<input type="checkbox"/> Redevelopment Projects: Complete the calculations below. Select <u>the</u> applicable scenario based on the results.							
a. Existing impervious area (ft²)		b. Impervious area created / replaced (ft²)		c. % Impervious created / replaced [(b/a)*100]			
<input type="checkbox"/> <i>Scenario 1: c is 50% or more:</i> Performance standards apply to all impervious surfaces (a + b).							
<input type="checkbox"/> <i>Scenario 2: c is less than 50%:</i> Performance standards apply only to created or replaced impervious surfaces (b only).							
Part B – Compliance Strategies and Required Attachments							
1. Complete and submit each of the applicable attachments on the right.	Att. 1	Att. 2	Att. 3	Att. 4	Att. 5		
	Storm Water Intake Form <input checked="" type="checkbox"/>	DMA Exhibits and Construction Plan Sheets <input checked="" type="checkbox"/>	Source Control BMP Worksheet (see Table 3) <input checked="" type="checkbox"/>	Previous SWQMP Submittals (see Table 1) <input type="checkbox"/>	Existing Site and Drainage Description <input checked="" type="checkbox"/>		
2. Indicate each compliance strategy below that will be used for one or more DMAs on the site.	Att. 6	Att. 7	Att. 8	Att. 9	Att. 10	Att. 11	Att. 12
	DMAs without Structural BMPs	DMAs w/ Structural Pollutant Control BMPs	DMAs w/ Structural Hydromod. BMPs	Critical Coarse Sediment Yield Areas	Installation Verification Form	Maintenance Agreements/ Plans	Alternative Compliance Projects
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structural BMPs (select all that apply)							
<input checked="" type="checkbox"/> Pollutant Control BMPs (BMPDM Section 5.4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Hydromodification BMPs (BMPDM Chapter 6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Alternative Compliance Project (BMPDM Section 1.8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Please check this box after you complete this list. Corresponding attachments will be automatically selected on the right.							

• Attachments 1, 2, and 5 are required for all projects.

Table 6: Critical Coarse Sediment Yield Area (CCSYA) Requirements

- Identify one applicable compliance pathway for the PDP below.
- Document your selection in **Attachment 9**.

A. Hydromodification Management Exemption (BMPDM Sections 1.6 and 6.1)

PDP is Exempt from Hydromodification Management Requirements

Select if hydromodification management exemption was selected in Table 4 Part A.1.

B. Watershed Management Area (WMAA) Mapping (BMPDM Appendix H.1.1.2)

WMAA mapping demonstrates the following:

- a. <5% of potential onsite CCYSAs will be impacted (built on or obstructed)
- b. All potential upstream offsite CCYSAs will be bypassed

C. Resource Protection Ordinance (RPO) Methods (BMPDM Appendix H.1.1.1)

RPO Scenario 1: PDP is subject to and in compliance with RPO requirements

- a. Project requires one or more discretionary permits (RPO applicability is confirmed during discretionary review)
- b. Onsite AND upstream offsite CCSYAs will be avoided and/or bypassed

RPO Scenario 2: PDP is entirely exempt/not subject to RPO requirements²

- a. Project does not require discretionary permits
- b. Project will bypass all upstream offsite CCSYAs (no requirements for onsite CCSYAs)

D. No Net Impact Analysis (BMPDM Appendix H.4)

Project demonstrates no net impact to receiving waters

² Does not include PDPs utilizing exemption(s) via RPO Section 86.604(e)(2)(cc) or 86.604(e)(3).

Table 7 – Minimum Construction Stormwater BMPs

Minimum Required BMPs by Activity Type Select all applicable activities and at least one BMP for each	References Caltrans ³	County of San Diego
<input checked="" type="checkbox"/> Erosion Control for Disturbed Slopes (choose at least 1 per season) <input type="checkbox"/> Vegetation Stabilization Planting ⁴ (Summer) <input checked="" type="checkbox"/> Hydraulic Stabilization Hydroseeding ⁹ (Summer) <input checked="" type="checkbox"/> Bonded Fiber Matrix or Stabilized Fiber Matrix ⁵ (Winter) <input type="checkbox"/> Physical Stabilization Erosion Control Blanket ⁷ (Winter)	SS-2, SS-4 SS-4 SS-3 SS-7	
<input checked="" type="checkbox"/> Erosion control for disturbed flat areas (slope < 5%) <input type="checkbox"/> County Standard Lot Perimeter Protection Detail <input type="checkbox"/> Use of Item A erosion control measures on flat areas <input type="checkbox"/> County Standard Desilting Basin (must treat all site runoff) <input checked="" type="checkbox"/> Mulch, straw, wood chips, soil application	SC-2 SS-3, SS-4, SS-7 SC-2 SS-6, SS-8	PDS 659 ⁶ PDS 660 ⁷
<input checked="" type="checkbox"/> Energy dissipation (required to control velocity for concentrated runoff or dewatering discharge) <input checked="" type="checkbox"/> Energy Dissipater Outlet Protection	SS-10	RSD D-40 ⁸
<input checked="" type="checkbox"/> Sediment control for all disturbed areas <input checked="" type="checkbox"/> Silt Fence <input checked="" type="checkbox"/> Fiber Rolls (Straw Wattles) <input type="checkbox"/> Gravel & Sand Bags <input type="checkbox"/> Dewatering Filtration <input checked="" type="checkbox"/> Storm Drain Inlet Protection <input type="checkbox"/> Engineered Desilting Basin (sized for 10-year flow)	SC-1 SC-5 SC-6, SC-8 NS-2 SC-10 SC-2	
<input checked="" type="checkbox"/> Preventing offsite tracking of sediment <input checked="" type="checkbox"/> Stabilized Construction Entrance <input type="checkbox"/> Construction Road Stabilization <input type="checkbox"/> Entrance/Exit Tire Wash <input checked="" type="checkbox"/> Entrance/Exit Inspection & Cleaning Facility <input type="checkbox"/> Street Sweeping and Vacuuming	TC-1 TC-2 TC-3 TC-1 SC-7	
<input checked="" type="checkbox"/> Materials Management <input checked="" type="checkbox"/> Material Delivery & Storage <input type="checkbox"/> Spill Prevention and Control	WM-1 WM-4	
<input checked="" type="checkbox"/> Waste Management⁹ <input checked="" type="checkbox"/> Waste Management Concrete Waste Management <input type="checkbox"/> Solid Waste Management <input type="checkbox"/> Sanitary Waste Management <input type="checkbox"/> Hazardous Waste Management	WM-8 WM-5 WM-9 WM-6	

³ See Caltrans 2017 Storm Water Quality Handbooks, Construction Site BMP Manual, available at: (<http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm>)

⁴ Planting or Hydroseeding may be installed between May 1st and August 15th. Slope irrigation must be in place and operable for slopes >3 feet. Vegetation must be watered and established prior to October 1st. A contingency physical BMP must be implemented by August 15th if vegetation is not established by that date. If landscaping is proposed, erosion control measures must also be used while landscaping is being established. Established vegetation must have a subsurface mat of intertwined mature roots with a uniform vegetative coverage of 70 percent of the natural vegetative coverage or more on all disturbed areas.

⁵ All slopes over three feet must have established vegetative cover prior to final permit approval.

⁶ County PDS 659. Standard Lot Perimeter Protection Design System (Bldg. Division)

⁷ County PDS 660. County Standard Desilting Basin for Disturbed Areas of 1 Acre or Less Bldg. Division

⁸ Regional Standard Drawing D-40 – Rip Rap Energy Dissipater (also acceptable for velocity reduction)

⁹ Applicants are responsible to apply appropriate BMPs for specific wastes (e.g., BMP WM-8 for concrete).

Table 8 – Explanations and Justifications for Construction Phase BMPs

<input checked="" type="checkbox"/> Check here if no explanations or justifications for Table 7 BMPs are required.		
Justifications for Table 7 Temporary Construction Phase BMPs <ul style="list-style-type: none"> • Required Justifications: Justify all construction activity types for which NO BMPs were selected. • If Requested: Justify why specific individual BMPs were not selected. • Additional Explanation: Describe any proposed features and/or BMPs not listed in Table 7. 		
Activity Type / BMP		Explanation
Activity Type	Activity Type	Explanation
BMP	BMP	
Activity Type	Activity Type	Explanation
BMP	BMP	
Activity Type	Activity Type	Explanation
BMP	BMP	
Activity Type	Activity Type	Explanation
BMP	BMP	
Activity Type	Activity Type	Explanation
BMP	BMP	
Activity Type	Activity Type	Explanation
BMP	BMP	
Activity Type	Activity Type	Explanation
BMP	BMP	



County of San Diego
 Stormwater Quality Management Plan (SWQMP)
Attachment 1: Storm Water Intake Form for All Permit Applications

This form establishes Stormwater Quality Management Plan (SWQMP) requirements for Development Projects per Sections 67.809 and 67.811 of the County of San Diego Watershed Protection Ordinance (WPO). See **Storm Water Intake Form Instructions** for additional guidance and explanation of terms.

Part 1. Project Information			
Project Name:	Campo Dollar General		
Record ID (Permit) No(s):	PDS2019-LDGRMJ-30250		
Assessor's Parcel No(s):	655-120-09		
Street Address (or Intersection):	31576 SR 94		
City, State, Zip:	Campo, CA, 91906		
Part 2. Applicant / Project Proponent Information			
Name:	David Church		
Company:	NNN Retail Development		
Street Address:	15882 Wakefield Lane		
City, State, Zip:	San Diego, CA, 92127		
Phone Number	(858) 354-0007		
Email:	david@nnnretaildevelopment.com		
Part 3. Required Information for All Development Projects			
(A)	1. Existing (pre-development) impervious surfaces (ft²)	2. Created or replaced impervious surfaces (ft²)	3. Total disturbed area (acres or ft²)
	0.0	36338.9	1.65 Acres
(B)	<input checked="" type="checkbox"/> Check here and provide a WDID# if this project is subject to the California Construction General Permit (Order No. 2009-0009-DWQ) ¹		WDID # (if issued)
			9 37W005047

For County Use Only	Reviewed By:	Review Date:
<input type="checkbox"/> Standard SWQMP	<input type="checkbox"/> PDP SWQMP	<input type="checkbox"/> Green Streets PDP Exemption SWQMP

¹ Available at: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html

Part 4. Priority Classification & SWQMP Form Selection**(A) If your project is the following ... (select one)****(B) You must complete ...** **Standard Project****→ Standard SWQMP Form**

- a. Project is East of the Pacific/Salton Sea Divide
- b. None of the PDP criteria below applies

 Priority Development Project (PDP)**→ PDP SWQMP Form**

1. Project is part of an existing PDP, OR
2. Project does any of the following:
- a. Creates or replaces a total of 10,000 ft² or more of impervious surface
 - b. Creates or replaces a combined total of 5,000 ft² or more of impervious surface within one or more of the following uses: (1) parking lots; (2) streets, roads, highways, freeways, and/or driveways; (3) restaurants; and (4) hillsides
 - c. Creates or replaces a combined total of 5,000 ft² or more of impervious surface within one or more of the following uses: (1) automotive repair shops; and (2) retail gasoline outlets
 - d. Discharges directly to an Environmentally Sensitive Area (ESA) AND creates or replaces 2,500 ft² or more of impervious surface
 - e. Disturbs one or more acres of land (43,560 ft²) and is expected to generate pollutants post-construction
 - f. Is a redevelopment project that creates or replaces 5,000 ft² or more of impervious surface on a site already having at least 10,000 ft² of impervious surface

 Green Streets PDP Exemption²**→ Green Streets PDP Exemption SWQMP Form****Part 5. Applicant Signature***I have reviewed the information in this form, and it is true and correct to the best of my knowledge.*

Applicant / Project Proponent Signature:

Date: 5/20/2021

- **Upon completion** submit this form to the County.
- **If requested**, attach supporting documentation to justify selections made or exemptions claimed.
- **If this is a PDP that is part of a larger existing PDP**, you will be required to attach a copy of the existing SWQMP to the newer SWQMP submittal.

² **Green Streets PDP Exemption Projects** are those claiming exemption from PDP classification per WPO Section 67.811(b)(2) because they consist exclusively of *either* 1) development of new sidewalks, bike lanes, and/or trails; or 2) improvements to existing roads, sidewalks, bike lanes, and/or trails.



2.0 General Requirements

- Attachment 2 consolidates exhibits and plans required for the entire project.
- Complete the table below to indicate which sub-attachments are included with the submittal. Sub-attachments that are not applicable can be excluded from the submittal.
- Unless otherwise stated, features and BMPs identified and described in each corresponding Attachment (6 through 9) must be shown on applicable DMA Exhibits and construction plans submitted for the project.

Sub-attachments	Requirement
<input checked="" type="checkbox"/> 2.1: DMA Exhibits	All PDPs
<input checked="" type="checkbox"/> 2.2: Individual Structural BMP DMA Mapbook	PDPs with structural BMPs
<input checked="" type="checkbox"/> 2.3: Construction Plan Sets	All projects

2.1 DMA Exhibits

- DMA Exhibits must show all DMAs on the project site. Exhibits must include all applicable features identified in applicable SWQMP attachments.
- Exhibits may be prepared individually for the BMPs associated with each applicable SWQMP Attachment (6, 7, 8, and/or 9) or combined into one or more consolidated exhibits.
- Use this checklist to ensure required information is included on each exhibit (copy as needed).

DMA Exhibit ID #: 1 (Sheets 17 and 18)	
A. Features required for all exhibits	
1. Existing Site Features	
<input checked="" type="checkbox"/> Underlying hydrologic soil group (A, B, C, D)	<input checked="" type="checkbox"/> Topography and impervious areas
<input checked="" type="checkbox"/> Approximate depth to groundwater	<input checked="" type="checkbox"/> Existing drainage network, directions, and offsite connections
<input checked="" type="checkbox"/> Natural hydrologic features	
2. Drainage Management Area (DMA) Information	
<input checked="" type="checkbox"/> Proposed drainage network, directions, and offsite connections	<input checked="" type="checkbox"/> DMA boundaries, ID numbers, areas, and type (structural BMP, de minimis, etc.)
3. Proposed Site Changes, Features, and BMPs	
<input checked="" type="checkbox"/> Proposed demolition and grading	<input checked="" type="checkbox"/> Construction BMPs ²
<input checked="" type="checkbox"/> Group 1, 2, and 3 Features ¹	<input checked="" type="checkbox"/> Baseline source control BMPs
<input checked="" type="checkbox"/> Group 4 Features	<input checked="" type="checkbox"/> Baseline source control BMPs
B. Proposed Features and BMPs Specific to Individual SWQMP Attachments³	
<input checked="" type="checkbox"/> Attachment 6	<input checked="" type="checkbox"/> SSD-BMP impervious dispersion areas <input type="checkbox"/> SSD-BMP tree wells
<input checked="" type="checkbox"/> Attachment 7	<input checked="" type="checkbox"/> Structural pollutant control BMPs
<input checked="" type="checkbox"/> Attachment 8	<input checked="" type="checkbox"/> Structural hydromodification management BMPs <input checked="" type="checkbox"/> Point(s) of Compliance (POC) for hydromodification management <input type="checkbox"/> Proposed drainage boundary and drainage area to each POC
<input checked="" type="checkbox"/> Attachment 9	<input type="checkbox"/> Onsite CCSYAs <input type="checkbox"/> Bypass of onsite CCSYAs <input checked="" type="checkbox"/> Bypass of upstream offsite CCSYAs

¹ Group 1-4 features and baseline BMPs from PDP SWQMP Tables 2 and 3.

² Minimum Construction Stormwater BMPs from PDP SWQMP Table 7.

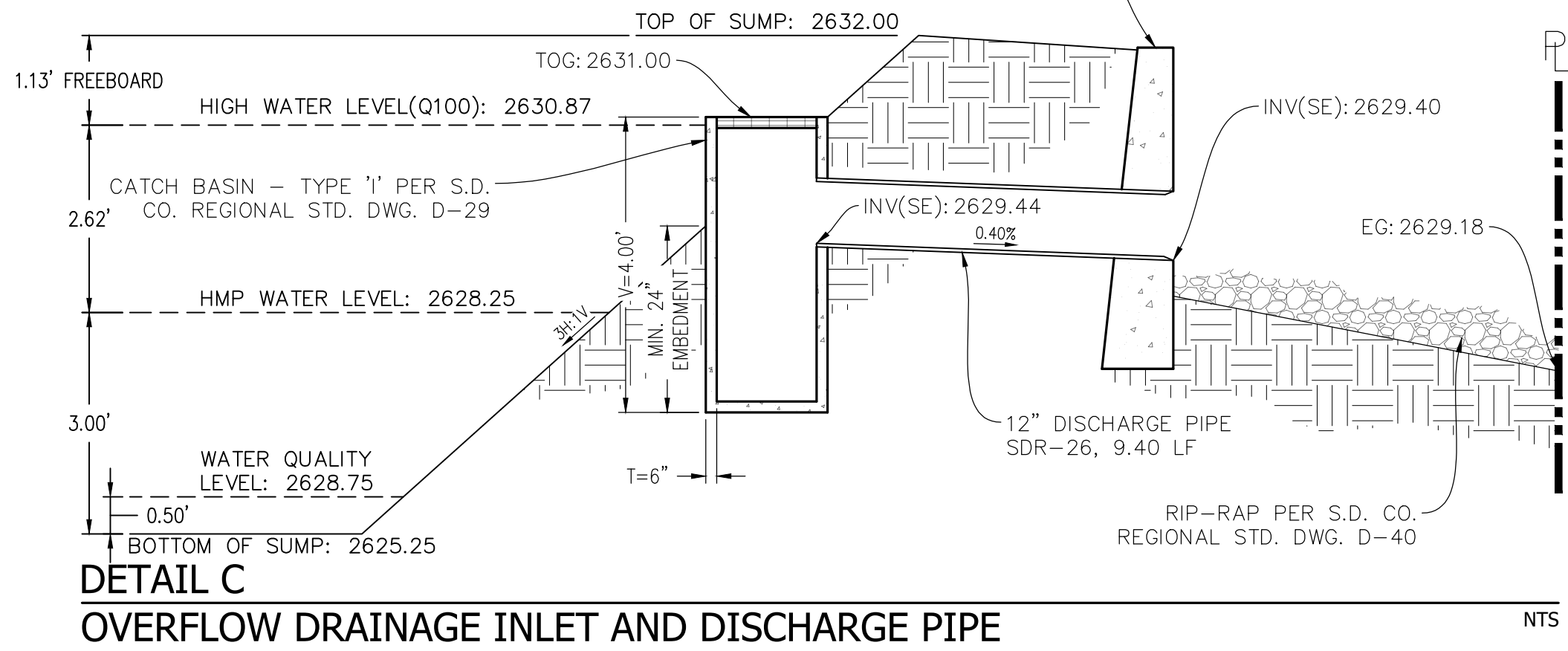
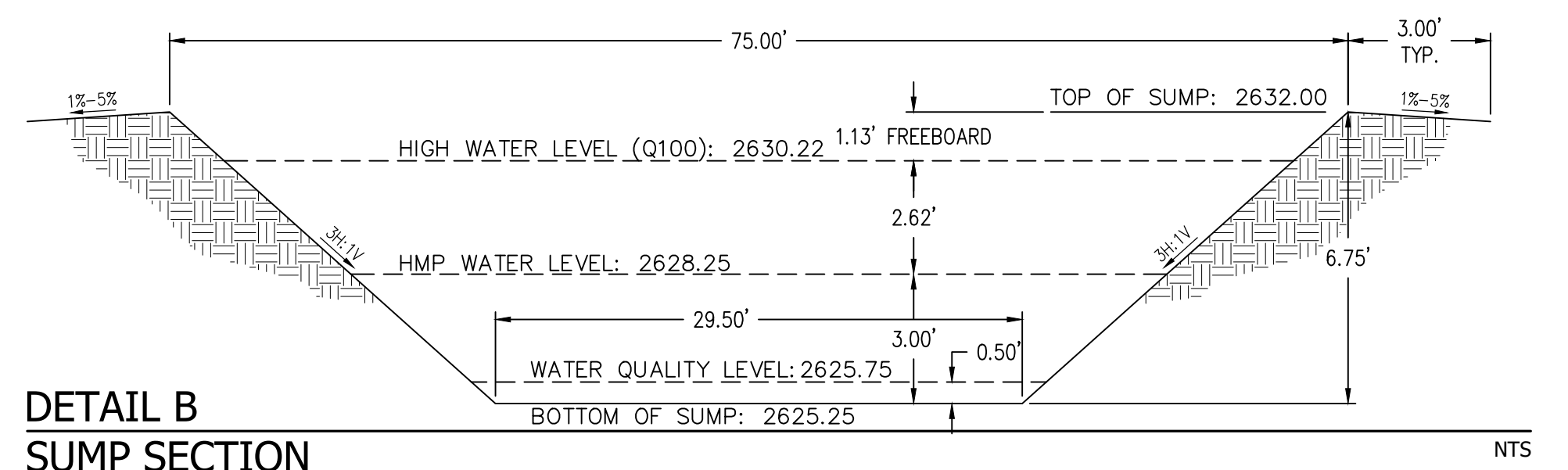
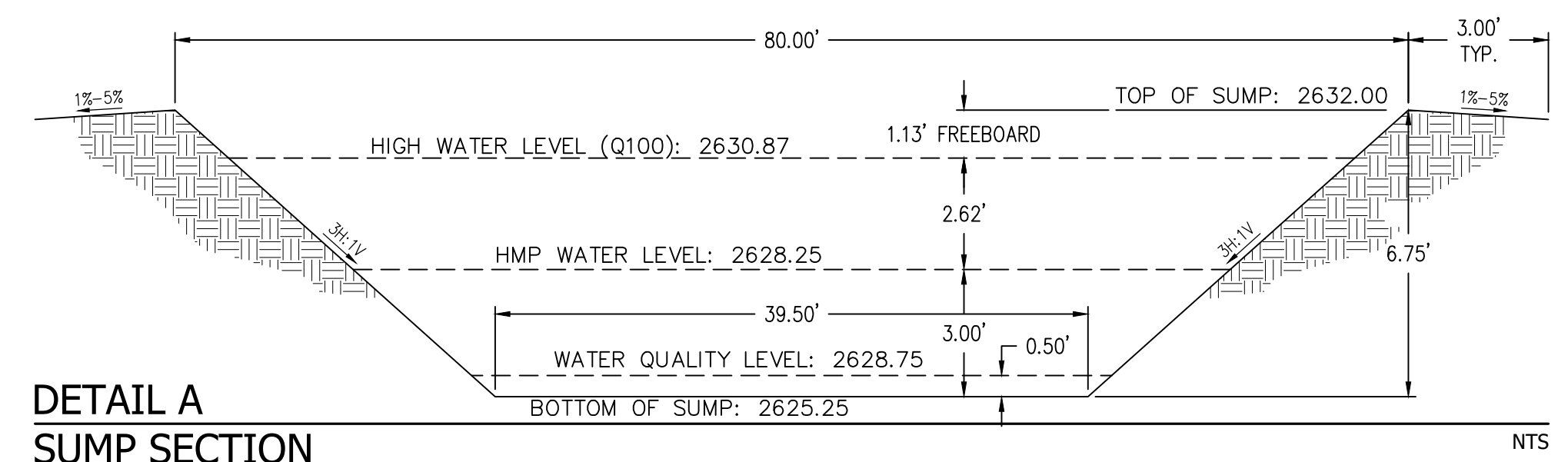
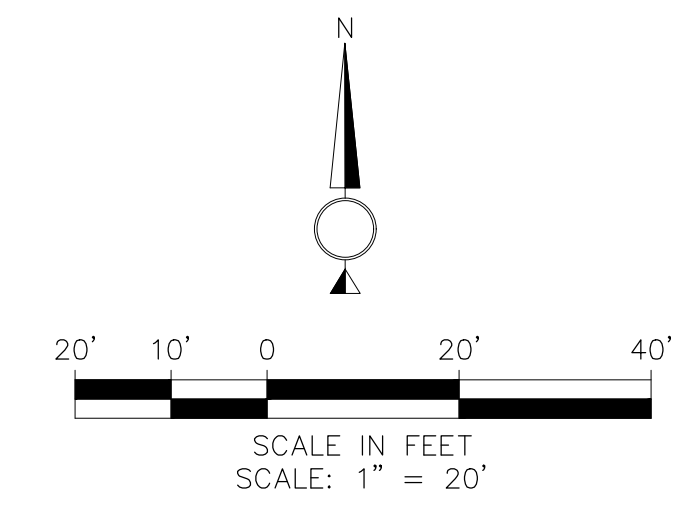
³ Identify the location, ID numbers, type, and size/detail of BMPs.



- LEGEND**
- DMA BOUNDARY(IES)
 - /// STRUCTURE - INFILTRATION BASIN/SUMP
 - - - TERRACE DITCH (TYPE C)
 - SURFACE FLOW
 - PROPOSED STORM DRAIN LINE
 - PROPOSED CONCRETE AREA (IMPERVIOUS)
 - PROPOSED STANDARD DUTY AC (IMPERVIOUS)
 - PROPOSED HEAVY DUTY AC (IMPERVIOUS)
 - ① PROPOSED CATCH BASIN/DRAINAGE INLET/ RISER
 - ② PROPOSED MANHOLE/JUNCTION BOX
 - ③ PROPOSED SLOTTED DRAIN
 - ④ PROPOSED STORM DRAIN LINE
 - ⑤ PROPOSED OUTLET STRUCTURE
 - ⑥ PROPOSED OVERFLOW DISCHARGE STRUCTURE
 - ⑦ PROPOSED SEPTIC SYSTEM
 - ⑧ PROPOSED ROOF DOWNSPOUT LOCATIONS

- EXISTING SITE FEATURES**
- HYDROLOGIC SOIL GROUP: A
 - APPROXIMATE DEPTH TO GROUND WATER: GREATER THAN 50FT
 - NATURAL HYDROLOGIC FEATURES: NONE
 - EXISTING DRAINAGE NETWORK, DIRECTIONS, OFF SITE CONNECTIONS: NONE

NOTE:
 1. REFER TO GRADING PLAN FOR ADDITIONAL DETAILS AND INFORMATION



DMA SUMMARY TABLE

IDENTIFICATION	IMPERVIOUS AREA (SQ. FT)	PERVIOUS AREA (SQ. FT)	DMA TYPE
DMA-1	7175	8182	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-2	1551	0	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-3	13220	63	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-4	3859	4589	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-5	5540	122	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-6	0	356	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-7	1772	297	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-8	0	9466	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-9	0	5407	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-10	391	941	BY-PASS TO OFFSITE
DMA-11	0	2287	SELF-MITIGATING
DMA-12	0	1581	SELF-MITIGATING
DMA-13	0	2881	SELF-MITIGATING
DMA-14	1030	0	BY-PASS TO SEPTIC SYSTEM

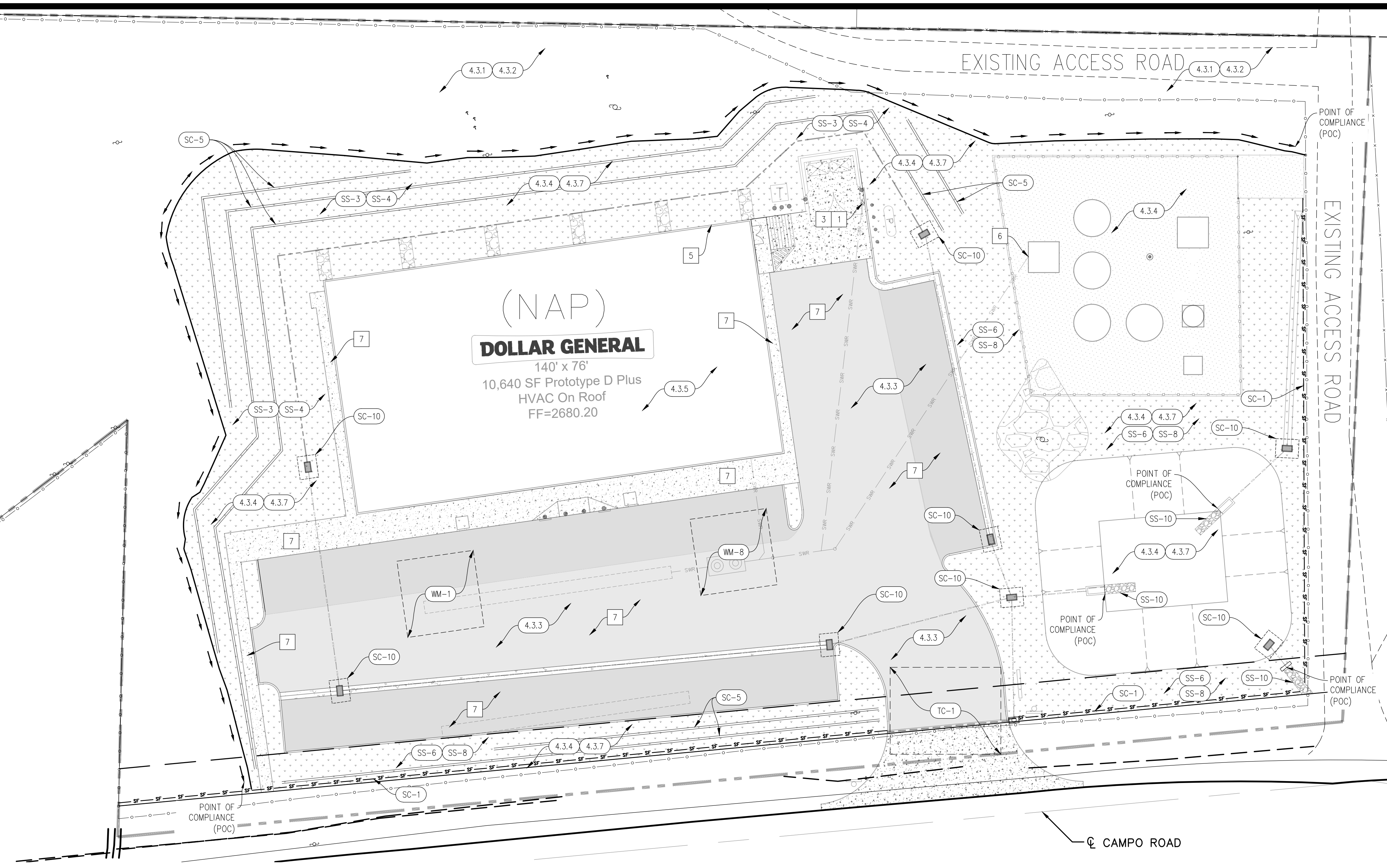
COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:
BENCH MARK		
DESCRIPTION: BRASS CAP DISK		
LOCATION: SET IN ROCK OUTCROP		
RECORD FROM: NGS BENCHMARK NO. DC0012		
ELEVATION: 2594.92'	DATUM: NAVD 88	
	DATUM:	

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO	18
17	DEPARTMENT OF PUBLIC WORKS	SHEETS
PLAN FOR: DOLLAR GENERAL - CAMPO, CA. SWQMP DMA PLAN		
CALIFORNIA COORDINATE INDEX 166-1929		
APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER	ENGINEER OF WORK: GREGORY O. BLACK	
NAME:	R.C.E.: 53952	DATE: 1/2/2021
DATE:	GRADING PERMIT NO: PDS2019-LDGRMJ-30250	

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Mar. 30, 2021
 PHONE NO. (661) 330-2361 // EMAIL: goblack@palmeis.com



CONSTRUCTION STORMWATER BMPs (TABLE 7)

- SC-1 TEMPORARY SILT FENCING
- SC-5 FIBER ROLLS
- SC-10 TEMPORARY DRAINAGE INLET PROTECTION
- SS-3 HYDRAULIC MULCH
- SS-4 HYDROSEEDING
- SS-6 STRAW MULCH
- SS-8 WOOD MULCH
- SS-10 OUTLET PROTECTION/VELOCITY DISSIPATION DEVICES
- TC-1 TEMPORARY CONSTRUCTION ENTRANCE/EXIT
- WM-1 MATERIAL DELIVERY AND STORAGE
- WM-8 CONCRETE WASTE MANAGEMENT

POST CONSTRUCTION SITE DESIGN BMPs (GROUP 1-3)

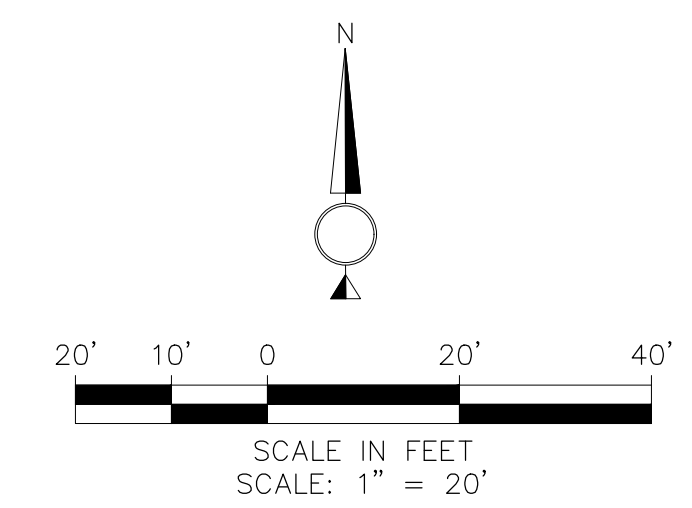
- 4.3.1 MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES
- 4.3.2 CONSERVE NATURAL AREAS, SOILS AND VEGETATION.
- 4.3.3 MINIMIZE IMPERVIOUS AREAS
- 4.3.4 MINIMIZE SOIL COMPACTION
- 4.3.5 DISPERSE IMPERVIOUS AREAS
- 4.3.7 LANDSCAPE WITH NATIVE OR DROUGHT TOLERANT SPECIES

SOURCE CONTROL BMPs (GROUP 4)

- 1 TRASH AND REFUSE STORAGE AREA TO DRAIN TO PROPOSED ON-SITE SEPTIC SYSTEM.
- 2 MATERIALS AND EQUIPMENT TO BE CONTAINED IN-SIDE STORE (UNPLOTTABLE), NO MATERIALS AND EQUIPMENT ARE TO BE STORED OUTSIDE
- 3 LOADING AND UNLOADING AREA TO DRAIN TO PROPOSED ON-SITE SEPTIC SYSTEM.
- 4 INTERIOR FLOOR DRAINS (UNPLOTTABLE) CONNECTED TO ON-SITE SEPTIC SYSTEM.
- 5 AIR CONDITION DRAIN LINES TO DISCHARGE TO LANDSCAPE AREAS ON NORTH SIDE OF BUILDING. CONDENSATE SHALL BE OF LOW VOLUME AND NOT ENTER STORM DRAIN SYSTEM.
- 6 FIRE TEST SPRINKLER DISCHARGE TO DRAIN TO SEPTIC SYSTEM.
- 7 SIDE WALKS AND PARKING LOT TO BE SEPT REGULARLY TO PREVENT THE ACCUMULATION OF LITTER AND/OR DEBRIS.
- 8 BUILDING DESIGN (BY OTHERS) HAS BEEN ESTABLISHED TO DISCOURAGE NUISANCE PEST ENTRY. PEST MANAGEMENT INFORMATION PROVIDED TO OWNERS/OPERATORS (UNPLOTTABLE).

(NAP)
DOLLAR GENERAL
 140' x 76'
 10,640 SF Prototype D Plus
 HVAC On Roof
 FF=2680.20

☐ CAMPO ROAD



COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:
BENCH MARK		
DESCRIPTION: BRASS CAP DISK		
LOCATION: SET IN ROCK OUTCROP		
RECORD FROM:	NGS BENCHMARK NO. DC0012	
ELEVATION:	2594.92'	DATUM: NAVD 88
		DATUM:

PRIVATE CONTRACT		
SHEET 18	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
PLAN FOR: DOLLAR GENERAL - CAMPO, CA. SWQMP BMP PLAN		
CALIFORNIA COORDINATE INDEX		166-1929
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK: GREGORY O. BLACK	
NAME:	R.C.E.: 53952	DATE: 5/20/2021
DATE:	GRADING PERMIT NO.: PDS2019-LDGRMJ-30250	

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Mar. 30, 2021
 PHONE NO. (661)330-2361 // EMAIL: goblack@palmeis.com

2.2 Individual Structural BMP DMA Mapbook

- Use this page as a cover sheet for the Structural DMA Mapbook.
- An individual Structural DMA Mapbook must be submitted for any project site with one or more structural BMPs. One Mapbook is required for each unique subsequent owner with responsibility for maintenance of a Structural BMP. Mapbook exhibits will be incorporated as exhibits in Stormwater Maintenance Agreements (SWMAs) and Maintenance Notifications (MNs). See Attachment 11 for additional information on maintenance agreements. If the Mapbook has been provided for each subsequent owner in Attachment 11, they are not required here.
- Place each map on 8.5"x11" paper.
- Show at a minimum the DMA, Structural BMP, Assessor's parcel boundaries with parcel numbers, and any existing hydrologic features within the DMA.

<input type="checkbox"/>	<u>All Mapbooks are attached</u>
<input checked="" type="checkbox"/>	<u>All Mapbooks are in Attachment 11</u>

2.3 Construction Plan Sets

- DMAs, features, and BMPs identified and described in this attachment must also be shown on all applicable construction and landscape plans.
- As applicable, plan sheets must identify:
 - All features and BMPs identified in Sub-attachment 2.1 (DMA Exhibits).
 - The additional information listed below.
- Use this checklist to ensure required information is included on each plan (copy as needed).

Plan Type	Grading Plan
Required Information⁴	
<input checked="" type="checkbox"/> Structural BMP(s) and Significant Site Design BMPs (if applicable) with ID numbers. <input checked="" type="checkbox"/> The grading and drainage design shown on the plans must be consistent with the delineation of DMAs shown on the DMA exhibit. <input checked="" type="checkbox"/> Details and specifications for construction of Structural BMP(s) and Significant Site Design BMPs (if applicable). <input checked="" type="checkbox"/> Signage indicating the location and boundary of structural BMP(s) as required by County staff. <input checked="" type="checkbox"/> How to access the structural BMP(s) to inspect and perform maintenance. <input checked="" type="checkbox"/> Features that are provided to facilitate inspection (e.g., observation ports, cleanouts, silt posts, or other features that allow the inspector to view necessary components of the structural BMP and compare to maintenance thresholds). <input checked="" type="checkbox"/> Maintenance thresholds specific to the structural BMP(s), with a location-specific frame of reference (e.g., level of accumulated materials that triggers removal of the materials, to be identified based on viewing marks on silt posts or measured with a survey rod with respect to a fixed benchmark within the BMP). <input checked="" type="checkbox"/> Recommended equipment to perform maintenance. <input checked="" type="checkbox"/> When applicable, necessary special training or certification requirements for inspection and maintenance personnel such as confined space entry or hazardous waste management. <input checked="" type="checkbox"/> Include landscaping plan sheets (if available) showing vegetation requirements for vegetated structural BMP(s). <input checked="" type="checkbox"/> All BMPs must be fully dimensioned on the plans. <input type="checkbox"/> When proprietary BMPs are used, site-specific cross-section with outflow, inflow, and manufacturer model number must be provided. Photocopies of general brochures are not acceptable. <input checked="" type="checkbox"/> Include all source control and site design measures described in the SWQMP. <input checked="" type="checkbox"/> Include all construction BMPs described in the SWQMP.	

⁴ For Building Permit Applications, refer to Form PDS 272, <https://www.sandiegocounty.gov/content/dam/sdc/pds/docs/pds272.pdf>

GENERAL NOTES - GRADING

- APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
- FINAL APPROVAL OF THESE GRADING PLANS IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
- IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
- A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
- ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED IN ACCORDANCE WITH THE SAN DIEGO COUNTY SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

SAN DIEGO GAS AND ELECTRIC	PHONE NUMBER: (800) 411-7343
AT&T TELEPHONE	(888) 336-6083
SEWER WATER	(SEPTIC) (PRIVATE)
- A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
- APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED.
- THE DIRECTOR OF PUBLIC WORKS APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE AREA COVERED BY THESE PLANS. NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER OVER EXPANSIVE SOIL IS MADE OR IMPLIED (SECTIONS 87.403 & 87.410). ANY SUCH WAIVER MUST BE OBTAINED FROM THE DIRECTOR OF PLANNING AND DEVELOPMENT SERVICES.
- ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00AM AND 6:00PM EACH DAY, MONDAY THROUGH SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SUNDAYS OR HOLIDAYS.
- ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
- NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK, ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTling, CRACKING, EROSION, SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
- SLOPE RATIOS:
 CUT--1 1/2: 1 FOR MINOR SLOPES (SLOPES < 15'), 2:1 FOR MAJOR SLOPES.
 FILL--2:1
 EXCAVATION: 7943.40 C. Y. FILL: 2723.60 C. Y. WASTE/IMPORT 5219.80 PC. Y.
 (NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS BEFORE PERMIT TO BE ISSUED).
- SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS TO DO SO.
- PERMANENT POST-CONSTRUCTION BMP DEVICES SHOWN ON PLAN SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL FROM THE DEPARTMENT OF PUBLIC OF WORKS.
- THE APPLICANT IS RESPONSIBLE FOR THE ROAD MAINTENANCE (SWEEPING AS NECESSARY) AND REPAIRS OF ANY DAMAGE CAUSED BY THEM TO THE ON-SITE AND OFF-SITE COUNTY MAINTAINED OR PRIVATE ROADS THAT SERVE THE PROPERTY EITHER DURING CONSTRUCTION OR SUBSEQUENT OPERATIONS. THE APPLICANT WILL REPAIR THOSE PORTIONS OF THE ROUTE THAT WOULD BE DAMAGED BY THE HEAVY LOADS THAT LOADED TRUCKS PLACE ON THE ROUTE IDENTIFIED.

BASIS OF BEARINGS

THE NORTH LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 18 SOUTH, RANGE 5 EAST, PER RECORD OF SURVEY NO. 3636, FILED MAY 31, 1955, AS FILE NO. 70559, TAKEN TO BEAR SOUTH 89°04' EAST.

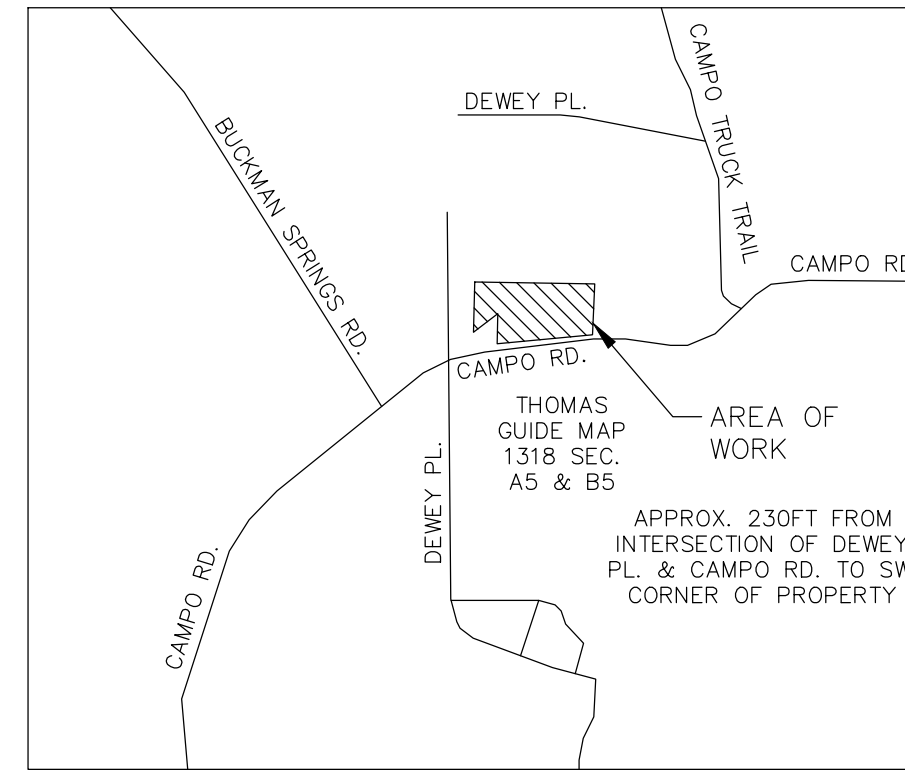


4300 ASHE ROAD, SUITE 103
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 (661) 664-4806 Land
 (888) 260-7357 Fax

DOLLAR GENERAL

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DOLLAR GENERAL
 CAMPO, CALIFORNIA
 COUNTY OF SAN DIEGO
 STATE OF CALIFORNIA
 APN: 655-120-09-00



VICINITY MAP

N.T.S.

DISTURBED AREA CALCS

PAD + SLOPES: 1.06 AC
 STREETS: 0.03 AC
 PRIMARY SEPTIC: 0.00 AC (UNDER PAVED AREA)
 AC/HARDSCAPE: 0.56 AC
 TOTAL: 1.65 AC
 WDD: 9 37W005047

WORK TO BE DONE:

GRADING AND DRAINAGE WORK CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT SAN DIEGO AREA REGIONAL STANDARD DRAWINGS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND PER SAN DIEGO COUNTY GRADING ORDINANCE.

GRADING PLAN LEGEND:

ITEM	SYMBOL
PROPERTY LINE	-----
LIMITS OF GRADING & CUT/FILL LINE	-----
EXISTING CONTOUR	---XXX.XX---
FINISH CONTOUR	---XXX.XX---
FINISH ELEVATIONS	● 340.0
OVERHEAD TELEPHONE LINES	---DHT---DHT---
OVERHEAD POWER LINES	---DHE---DHE---
OVERHEAD TELEPHONE & POWER LINES	---DHEAT---DHEAT---
SEWER LINES	---SWR---SWR---
DOMESTIC WATER PIPE	---W---
FIRE WATER PIPE	---F---
DUCTILE IRON PIPE	---DIP---
STORM DRAIN PIPE	---SDP---
CURB AND GUTTER (RSD G-2)	-----
CURB (RSD G-1)	-----
OUTLET	---O---
V-GUTTER (DET. 6, SHT 9)	-----
DRAIN INLET (RSD D-29, DS-13, AND DS-15)	---D---
MANHOLE / JUNCTION BOX	---M---
CHAINLINK FENCE	---X---X---X---
GRADING CUT AREAS (SEE SHEET 4)	-----
GRADING FILL AREAS (SEE SHEET 4)	-----

ABBREVIATIONS

AC - ASPHALT CONCRETE PAVING	EX - EXISTING GRADE	NS - NATURAL SURFACE
AP - ANGLE POINT	FF - FINISH FLOOR	ROW - RIGHT OF WAY
BCR - BEGINNING CURVE RADIUS	FG - FINISH GRADE	SWL - SWALE
BOS - BOTTOM OF SLOPE	FL - FLOWLINE	SW - SIDEWALK
BW - BACK OF WALK	GB - GRADE BREAK	TC - TOP OF CONCRETE
CL - CENTERLINE	HP - HIGH POINT	TOC - TOP OF CURB
CP - CONCRETE PAVEMENT	LP - LOW POINT	TOG - TOP OF GRATE
DYLT - DAYLIGHT LINE	LS - LANDSCAPING AREA	TOS - TOP OF SLOPE
ECR - END CURVE RADIUS	NAP - NOT A PART	TW - TOP OF WALK

STORMWATER STRUCTURAL POLLUTANT CONTROL & HYDROMODIFICATION CONTROL BMPs				
DESCRIPTION/TYPE	PLAN SHEET	BMP ID#	MAINTENANCE CATEGORY	MAINTENANCE AGREEMENT RECORDED DOC#
INFIL/RET. BASIN	17/18	1	CAT. 1	

* BMP'S APPROVED AS PART OF THIS STORMWATER QUALITY MANAGEMENT PLAN (SQMP) DATED 6/21/2021 (PENDING APPROVAL) ON FILE WITH DPW. ANY CHANGES TO THE ABOVE BMP'S WILL REQUIRE SQMP REVISION AND PLAN CHANGE APPROVALS.

OWNER / PERMITTEE

NAME: DAVID CHURCH

ADDRESS: 15882 WAKEFIELD LANE
SAN DIEGO, CA 92127

TELEPHONE NO: (858) 354-0007

SHORT LEGAL DESCRIPTION: PORTION OF THE E. 3/4 OF THE NW 1/4 OF THE NW 1/4 OF SEC. 10 T. 18 S., R. 5 E., SAN BERNARDINO MERIDIAN. SEE SHEET 13 FOR FULL LEGAL DESCRIPTION.

A.P.N. NO: 655-120-09-00

SITE ADDRESS: CAMPO RD.

RECORD PLAN

ENGINEER NAME RCE DATE _____

EXPIRES _____

FIRE DEPARTMENT APPROVAL

FIRE DEPT./DISTRICT: SD COUNTY FIRE DEPT.

APPROVED BY: (PENDING REVIEW)

DATE: _____

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, 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 CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

BY: GREGORY O. BLACK DATE: 6/21/2021

RCE NO: 53952

PDS ENVIRONMENTAL REVIEW

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY: _____

DATE: _____

THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR THE PERMIT/APPROVAL TO VIOLATE ANY FEDERAL, STATE, OR COUNTY LAWS, ORDINANCES, REGULATIONS, OR POLICES INCLUDING, BUT NOT LIMITED TO THE FEDERAL ENDANGERED SPECIES ACT AND CLEAN WATER ACT. GRADING AND/OR FURTHER DEVELOPMENT ARE PROHIBITED WITHIN THE AREAS DESIGNATED "LIMITS OF JURISDICTIONAL HABITAT" UNTIL FEDERAL PERMITS AND STATE PERMITS (IF ANY) HAVE BEEN ACQUIRED.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:

PERMITS

LANDSCAPE PERMIT NO. PDS2021-LF-21-022-PDS-PLN

WDD/NOI NO. 9 37W005047 SWPPP RISK LEVEL _____

CENTERLINE REVIEW NO. PDS2019-LDREFL-00380

BENCH MARK

DESCRIPTION: BRASS CAP DISK

LOCATION: SET IN ROCK OUTCROP

RECORD FROM: NGS BENCHMARK NO. DC0012

ELEVATION: 2594.92' DATUM: NAVD 88

DATUM: _____

PRIVATE CONTRACT

SHEET 1 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 18 SHEETS

PLAN FOR: DOLLAR GENERAL - CAMPO, CA. TITLE SHEET

CALIFORNIA COORDINATE INDEX 166-1929

APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER

ENGINEER OF WORK: GREGORY O. BLACK

R.C.E.: 53952 DATE: 6/21/2021

GRADING PERMIT NO: PDS2019-LDGRMJ-30250

TRAFFIC CONTROL NOTES:

PRIOR TO BEGINNING OF GRADING, SUBMIT A TRAFFIC CONTROL PLAN AND HAUL ROUTE PLAN TO TRAFFIC DIVISION, DEPARTMENT OF PUBLIC WORKS (DPW) FOR APPROVAL INCLUDING:

- SPECIFIC TRUCK TRAVEL ROUTES.
- ANTICIPATED LENGTH OF GRADING PERIOD INVOLVING THE NEED FOR TRUCK IMPORTS OF SOIL.
- TIME OF OPERATIONS.
- EXISTING CONDITIONS OF THE IMPACTED ROAD AREAS - INCLUDING TRAFFIC AND ROAD CONDITIONS.
- TRAFFIC SAFETY INCLUDING SAFETY TO RESIDENTS ON FOOT, ON BICYCLE AND IN VEHICLES, AND POSSIBLE MITIGATION FOR AVOIDANCE OF SIGNIFICANT PEAK HOUR TRAFFIC AT CERTAIN INTERCHANGES.
- INTERCHANGE GEOMETRY TO DETERMINE IF IT WILL ALLOW SAFE USE BY THE TRUCKS.
- TRAFFIC CONTROL PLANS MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, TRAFFIC ENGINEERING SECTION, PRIOR TO STARTING WORK.

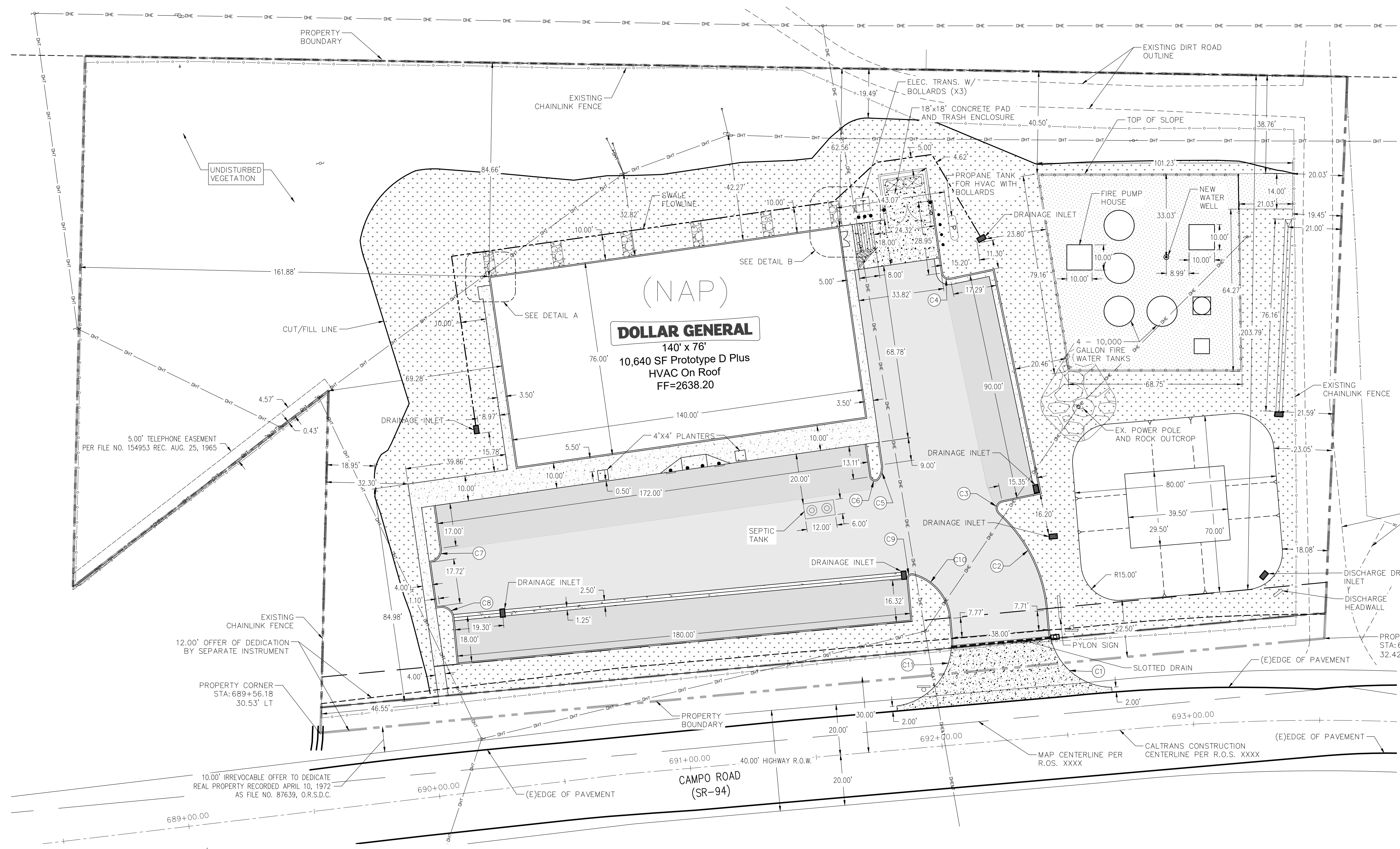
PUBLIC/PRIVATE ROAD REPAIR NOTES:

THE APPLICANT WILL REPAIR THOSE PORTIONS OF THE ROUTE THAT WOULD BE DAMAGED BY THE HEAVY LOADS THAT LOADED TRUCKS PLACE ON THE ROUTE IDENTIFIED. PRIOR TO THE IMPORT/EXPORT ALL AFFECTED PROPERTY OWNERS SHALL BE NOTIFIED; NO EQUIPMENT OR MATERIAL STORAGE ON PUBLIC ROADS WILL BE ALLOWED, AND SWEEPING TO BE PERFORMED AT THE END OF EACH WORK SHIFT.

SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	TITLE SHEET, SHEET INDEX, GENERAL NOTES
2	HORIZONTAL CONTROL PLAN
3	SITE IMPROVEMENT PLAN
4	GRADING AND DRAINAGE PLAN
5	UTILITY PLAN
6	SIGNING AND STRIPING PLAN
7	CONSTRUCTION BMP PLAN
8	CONSTRUCTION BMP DETAILS
9	CONSTRUCTION DETAILS
10	SAN DIEGO COUNTY STANDARD DETAILS
11	MISCELLANEOUS STANDARD DETAILS
12	ACCESSIBILITY DETAILS
13	TRASH ENCLOSURE DETAILS
14	ALTA/NSPS LAND TITLE SURVEY
15	ALTA/NSPS TOPO SHEET
16	ALTA/NSPS BOUNDARY SHEET
17	SQMP DMA PLAN
18	SQMP BMP PLAN

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: June 21, 2021
 PHONE NO. (661) 330-2361 // EMAIL: goblack@palmetts.com



LEGEND

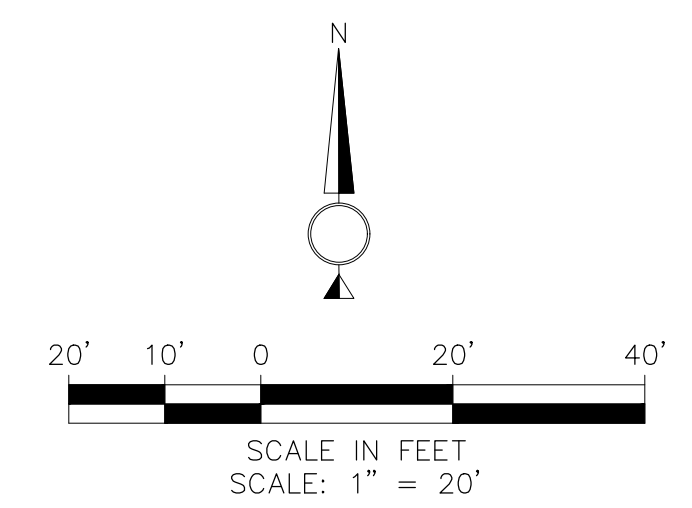
- HEAVY DUTY CONCRETE
SEE SHEET 9.
- STANDARD DUTY CONCRETE
SEE SHEET 9.
- HEAVY DUTY AC PAVING
SEE SHEET 9.
- 6" CLASS 2 AGGREGATE BASE
- STANDARD DUTY AC PAVING
SEE SHEET 9.
- LANDSCAPING

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	25.00'	36.92'	22.75'	84°36'58"
C2	58.00'	43.63'	22.91'	43°06'15"
C3	3.00'	6.60'	5.90'	126°04'49"
C4	3.00'	4.91'	3.20'	93°46'12"
C5	8.00'	6.03'	3.17'	43°11'00"
C6	2.00'	4.78'	5.05'	136°49'00"
C7	5.00'	7.85'	5.00'	90°00'00"
C8	5.00'	8.09'	5.24'	92°44'08"
C9	2.00'	3.84'	2.85'	109°54'11"
C10	20.00'	24.64'	14.16'	70°35'43"
C11	25.00'	38.01'	23.77'	87°06'14"



NOTE:
1. ALL STATIONING AND STATIONING OFF-SETS PER CALTRANS CONSTRUCTION AS PER RECORD OF SURVEY MAP NO. XXXX



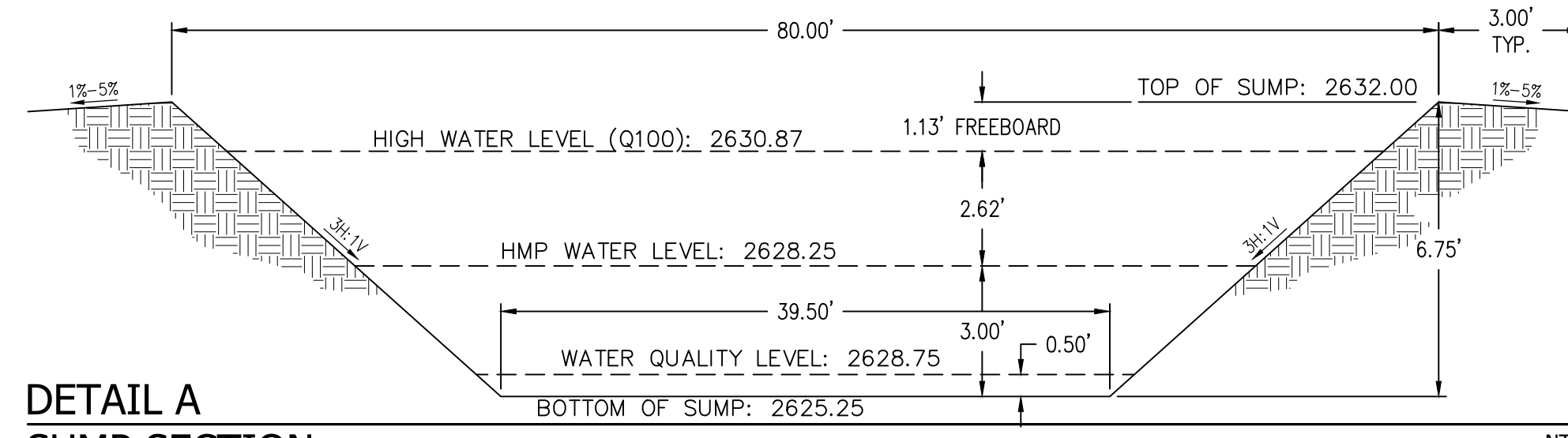
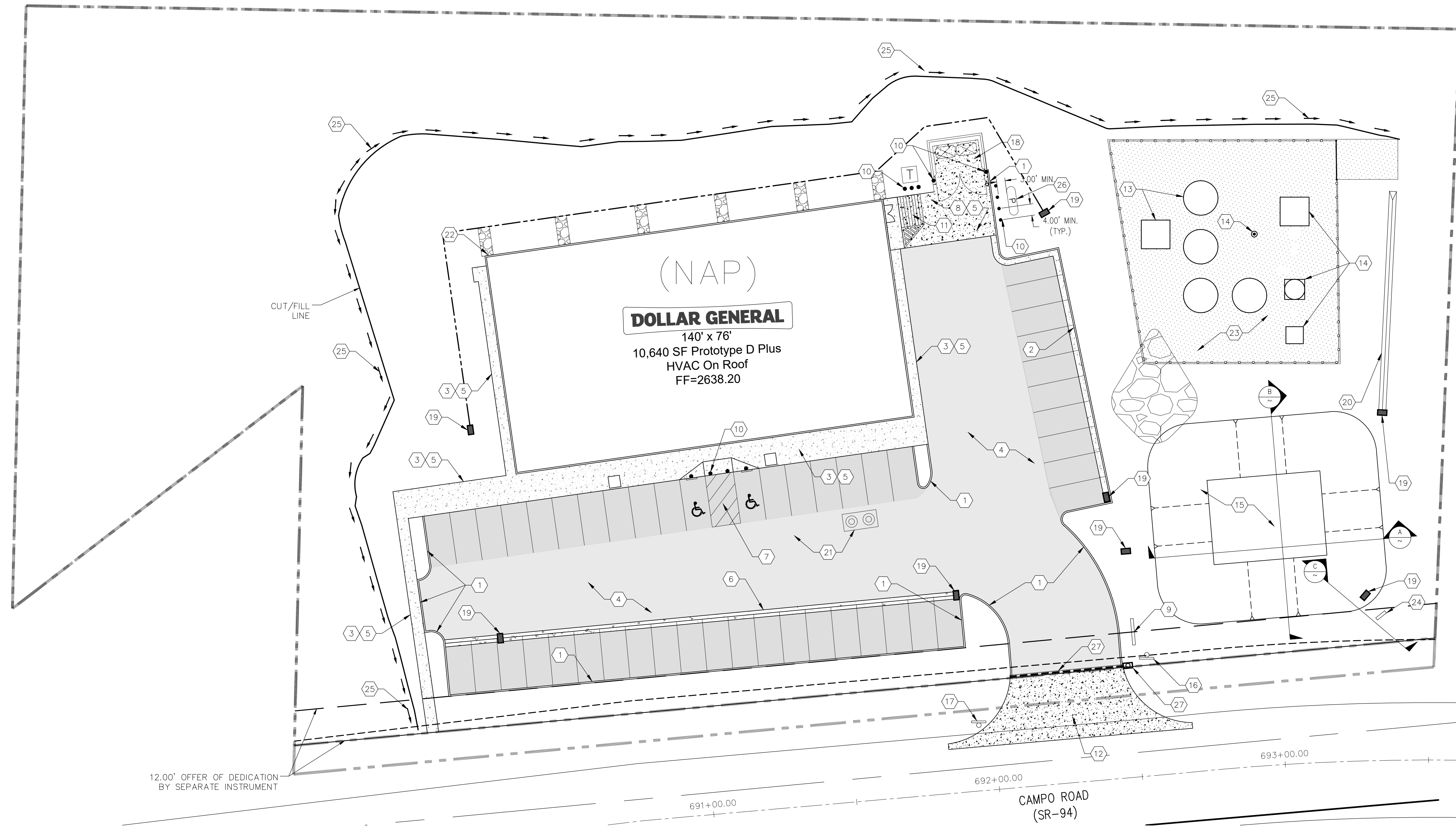
COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:
BENCH MARK		
DESCRIPTION: BRASS CAP DISK		
LOCATION: SET IN ROCK OUTCROP		
RECORD FROM: NGS BENCHMARK NO. DC0012		
ELEVATION: 2594.92' DATUM: NAVD 88		
DATE:		

PRIVATE CONTRACT		
SHEET 2	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
PLAN FOR: DOLLAR GENERAL - CAMPO, CA. HORIZONTAL CONTROL PLAN		
CALIFORNIA COORDINATE INDEX 166-1929		
APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER	ENGINEER OF WORK: GREGORY O. BLACK	
NAME:	R.C.E.: 53952	DATE: 6/21/2021
DATE:	GRADING PERMIT NO: PDS2019-LDGRMJ-30250	

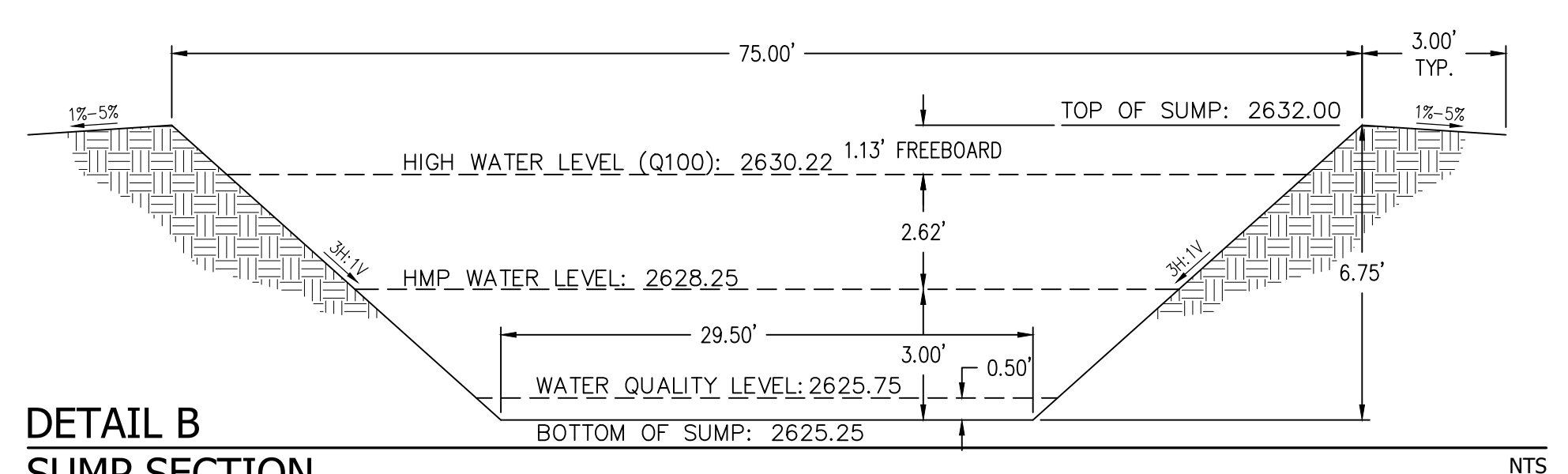
ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Jun. 21, 2021
PHONE NO. (661)330-2361 // EMAIL: goblack@palmeis.com

CONSTRUCTION CALLOUTS

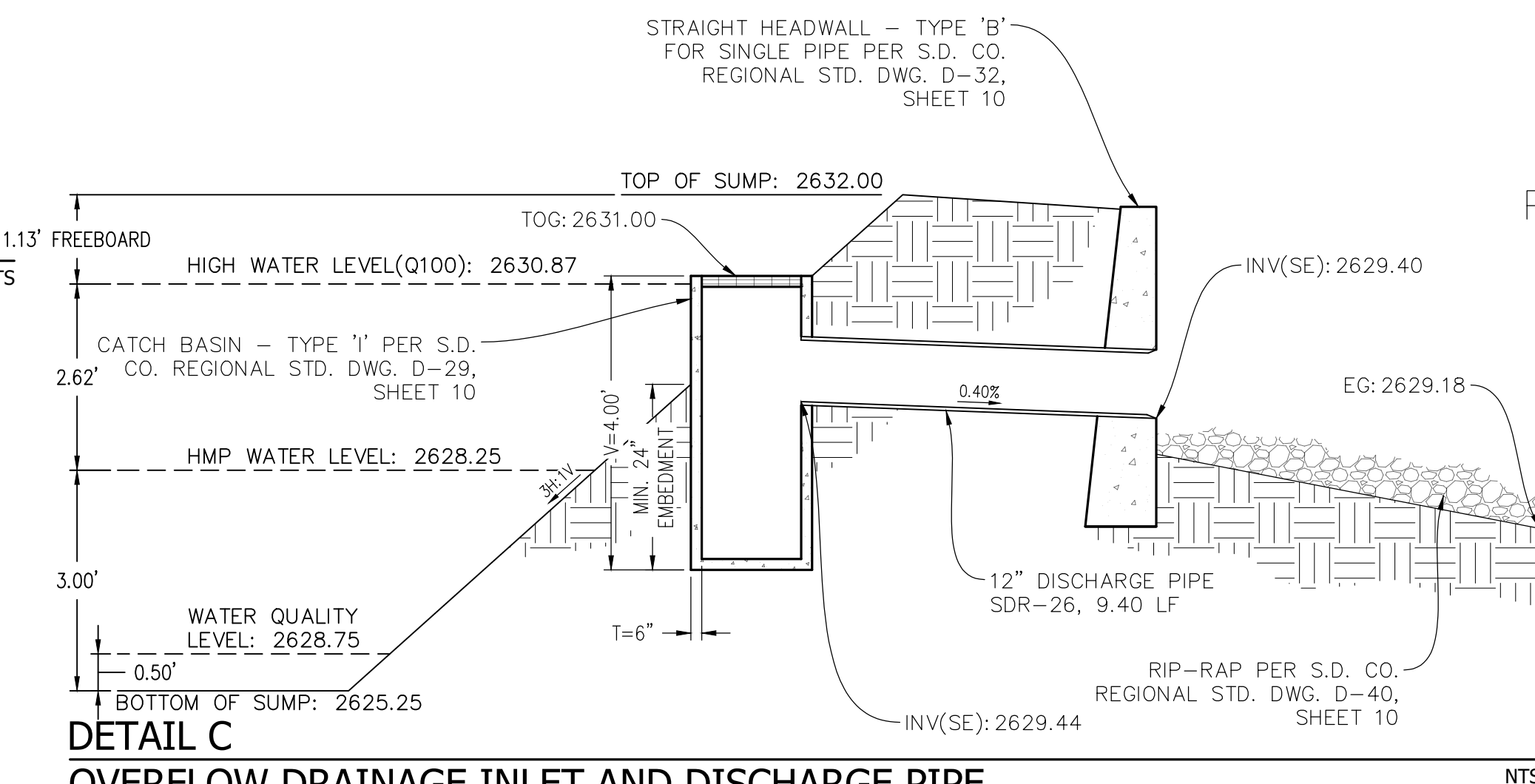
- ① 6" CURBING PER S.D. CO. REGIONAL STD. DWG G-01, SHEET 10.
- ② CURB AND "TYPE G" GUTTER PER S.D. CO. REGIONAL STD. DWG G-02, SHEET 10.
- ③ CONCRETE SIDEWALK PER DETAILS 2, 3, 4 AND 5, SHEET 9.
- ④ A.C. PAVING - SEE ASPHALTIC PAVEMENT DETAIL 8, SHEET 9.
 - STANDARD DUTY ASPHALT - SEE SHEET 9.
 - HEAVY DUTY ASPHALT - SEE SHEET 9.
- ⑤ CONCRETE PAVING - SEE DETAIL 8, SHEET 9, EXPANSION AND CONTROL JOINTS - SEE DETAILS 3, 4 & 5, SHEET 9.
 - STANDARD DUTY CONCRETE - SEE SHEET 9.
 - HEAVY DUTY CONCRETE - SEE SHEET 9.
- ⑥ V-GUTTER AS PER DETAIL 6, SHEET 9.
- ⑦ ACCESSIBLE PARKING AND RAMP - SEE DETAILS 1 & 2, SHEET 12.
- ⑧ LOADING AREA: SLOPE AT MAX. 1% AWAY FROM BUILDING.
- ⑨ DOLLAR GENERAL PYLON SIGN, BY DOLLAR GENERAL.
- ⑩ TYPICAL BOLLARD PIPE - SEE DETAIL 1, SHEET 9.
- ⑪ LOADING RAMP - SLOPE AT MAX. 12H:1V. SEE DETAIL 1, SHEET 4.
- ⑫ CONSTRUCT CONCRETE DRIVEWAY AS SHOWN ON PLAN. USE STRUCTURAL SECTION PER S.D. CO. REGIONAL STD. DWG G-14E, SHEET 10.
- ⑬ INSTALL FIRE WATER TANKS AND PUMP/PUMPHOUSE. SEE FIRE PLAN. (DESIGN BY OTHERS)
- ⑭ INSTALL NEW WATER WELL AND PUMP/PRESSURE TANK. SEE WATER PLAN. (DESIGN BY OTHERS)
- ⑮ CONSTRUCT NEW STORMWATER RETENTION BASIN. SEE THIS SHEET AND GRADING AND DRAINAGE PLAN, SHEET 4.
- ⑯ ACCESSIBLE SITE ENTRANCE SIGN PER DETAIL 4, SHEET 6.
- ⑰ R-1 STOP SIGN. SEE SIGNING AND STRIPING PLAN, SHEET 6.
- ⑱ TRASH ENCLOSURE - SEE SHEET 13
- ⑲ CATCH BASIN (TYPE I) WITH GRATE PER S.D. REGIONAL STD. DRAWINGS D-13, D-15, & D-29, SHEET 10.
- ⑳ TYPE "A" BROW DITCH PER SAN DIEGO REGIONAL STANDARD DRAWING D-75, SHEET 10
- ㉑ SEPTIC TANK AND DRAIN FIELD. SEE UTILITY PLAN, SHEET 5.
- ㉒ DOWNSPOUT / SPLASH BLOCK - SEE DETAIL 9, SHEET 9.
- ㉓ 6" - CLASS 2 AGGREGATE BASE
- ㉔ STRAIGHT HEADWALL - TYPE "B" FOR SINGLE PIPE PER SD. REGIONAL STD. DRAWING D-32, SHEET 10.
- ㉕ INSTALL TYPE "C" TERRACE DITCH PER S.D. REGIONAL STD. DRAWING, D-75, SHEET 10.
- ㉖ INSTALL 500 GALLON LIQUID PROPANE GAS(LPG) TANK.
- ㉗ INSTALL TYPE "F" CATCH BASIN WITH LIGHT DUTY 24" MANHOLE FRAME AND COVER PER DETAILS S.D. REGIONAL STD. DRAWINGS D-07 AND M-02, SHEET 10.
- ㉘ 8" DURASLOT SLOTTED DRAIN BY ADVANCED DRAINAGE SOLUTIONS. HPDE PIPE WITH VARIABLE SLOT HEIGHT (6" MINIMUM). SLOPE AT MINIMUM OF 0.40% TO CATCH BASIN (NUMBER 27).



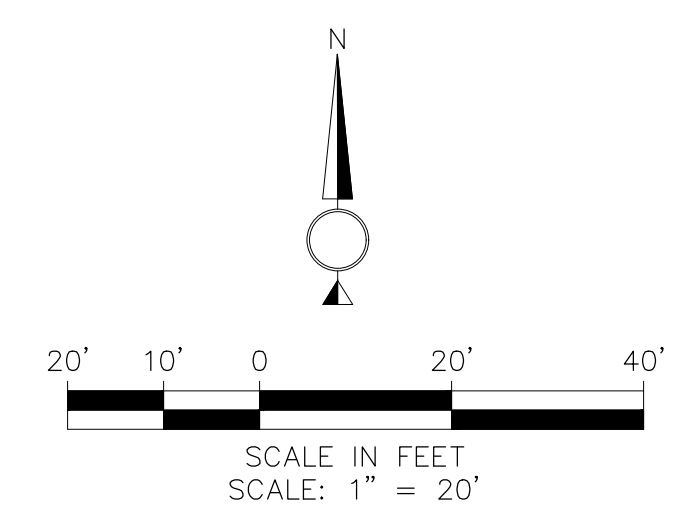
**DETAIL A
SUMP SECTION**



**DETAIL B
SUMP SECTION**



**DETAIL C
OVERFLOW DRAINAGE INLET AND DISCHARGE PIPE**

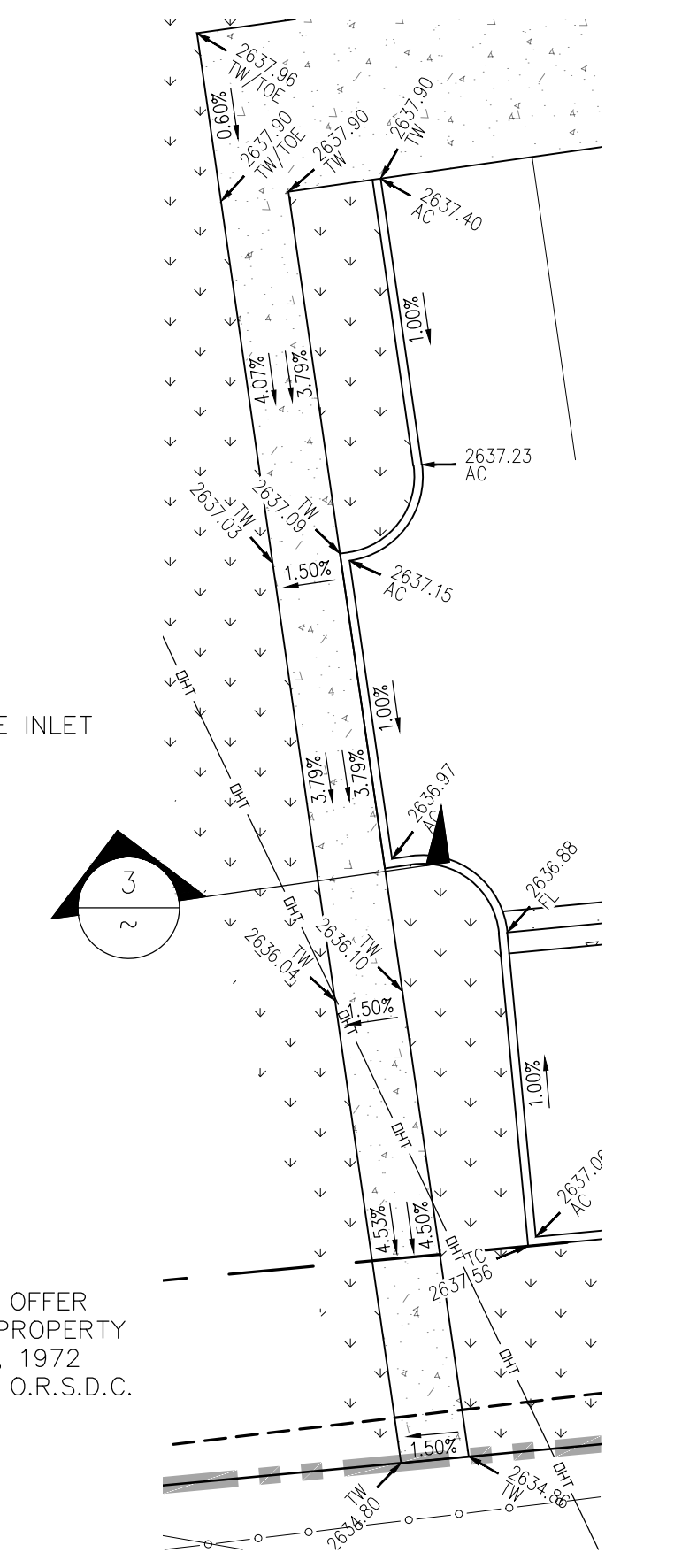
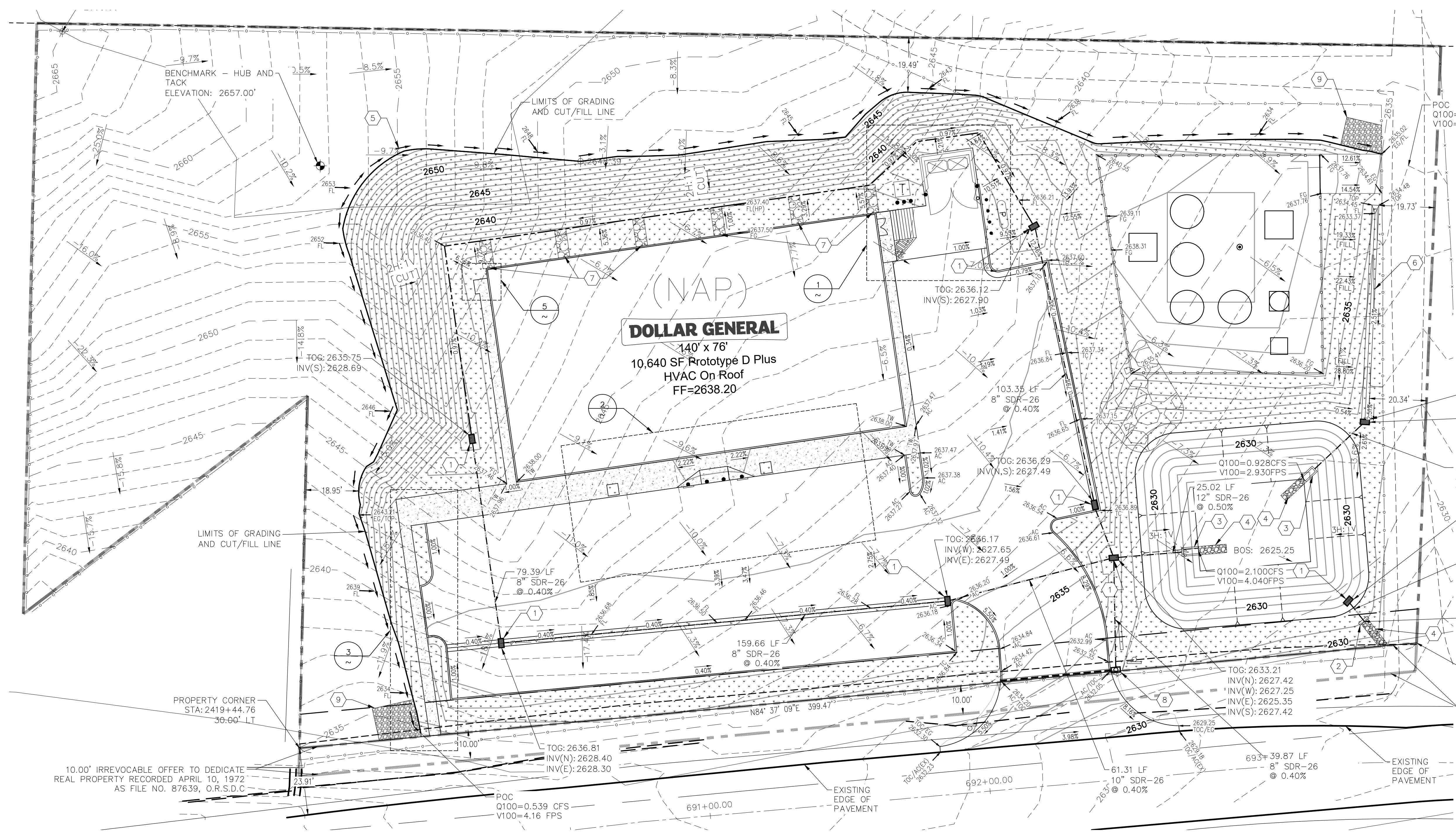


COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 3	COUNTY OF SAN DIEGO	18 SHEETS
			DEPARTMENT OF PUBLIC WORKS		
PLAN FOR:					
DOLLAR GENERAL - CAMPO, CA.					
SITE IMPROVEMENT PLAN					
CALIFORNIA COORDINATE INDEX 166-1929					
BENCH MARK					
DESCRIPTION: BRASS CAP DISK					
LOCATION: SET IN ROCK OUTCROP					
RECORD FROM: NGS BENCHMARK NO. DC0012					
ELEVATION: 2594.92' DATUM: NAVD 88					
DATE: _____					
APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER			ENGINEER OF WORK: GREGORY O. BLACK		
NAME: _____			R.C.E.: 53952 DATE: 6/21/2021		
DATE: _____			GRADING PERMIT NO: PDS2019-LDGRMJ-30250		

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Jun. 21, 2021
 PHONE NO. (661) 330-2361 // EMAIL: gblack@palmeis.com

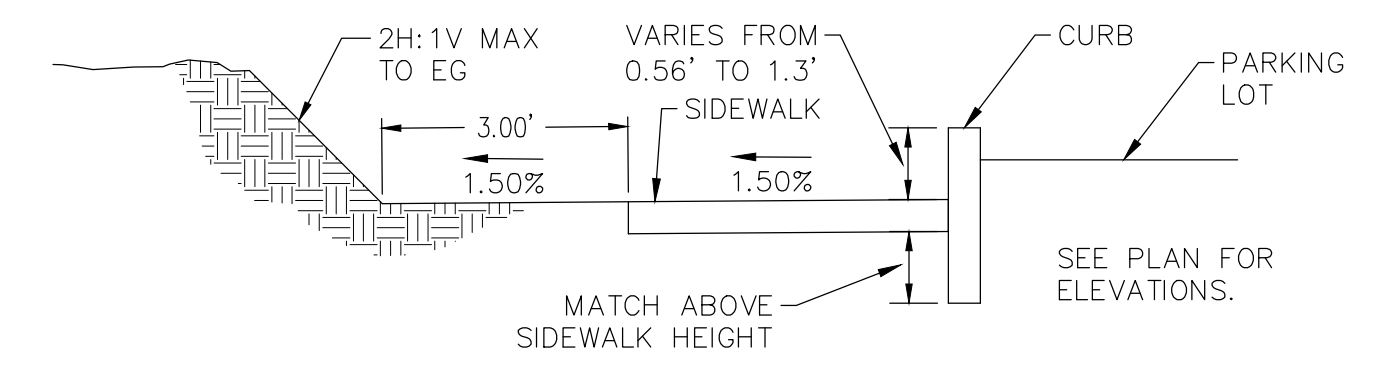
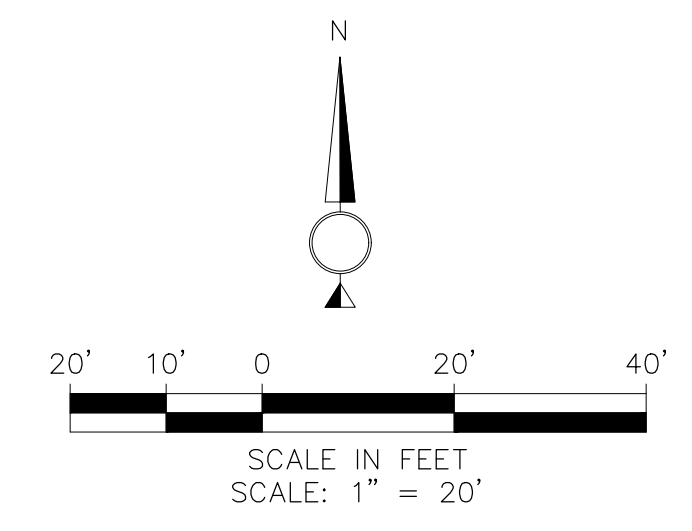
CONSTRUCTION CALLOUTS

- 1 INSTALL CATCH BASIN (TYPE I) WITH GRATE PER S.D. CO. REGIONAL STD. DRAWINGS D-29, D-13 & D15, SHEET 10.
- 2 INSTALL STRAIGHT HEADWALL PER S.D. CO. REGIONAL STD. DRAWINGS D-32, SHEET 10.
- 3 INSTALL DISCHARGE STRUCTURE PER DETAIL 1, SHEET 11.
- 4 INSTALL 10'X3' RIP RAP ENERGY DISSIPATER PER S.D. CO. REGIONAL STD. D-40, SHEET 10.
- 5 INSTALL TYPE C TERRACE DITCH PER S.D. CO. REGIONAL STD. DRAWING D-75, SHEET 10.
- 6 INSTALL TYPE A BROW DITCH PER S.D. CO. REGIONAL STD. DRAWING D-75, SHEET 10.
- 7 INSTALL DOWNSPOUT AND SPLASH BLOCK PER DETAIL 9, SHEET 9.
- 8 INSTALL TYPE 'E' CATCH BASIN WITH LIGHT DUTY 24" MANHOLE FRAME AND COVER PER DETAILS S.D. REGIONAL STD. DRAWINGS D-07 AND M-02, SHEET 10.
- 9 INSTALL 15'X10' RIP RAP ENERGY DISSIPATER PER S.D. CO. REGIONAL STD. D-40, SHEET 10.

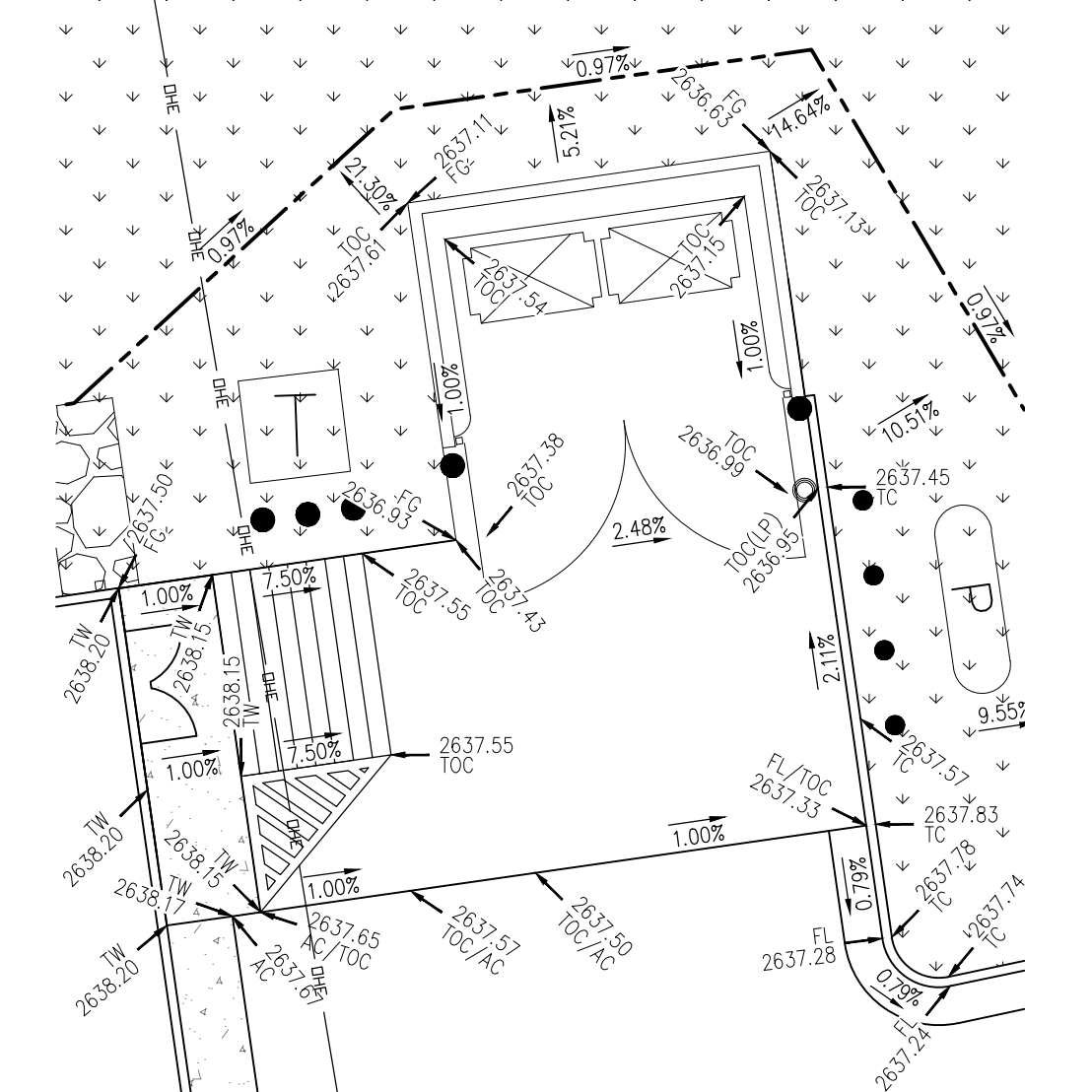


4 ACCESSIBLE PATH TO STREET
NTS

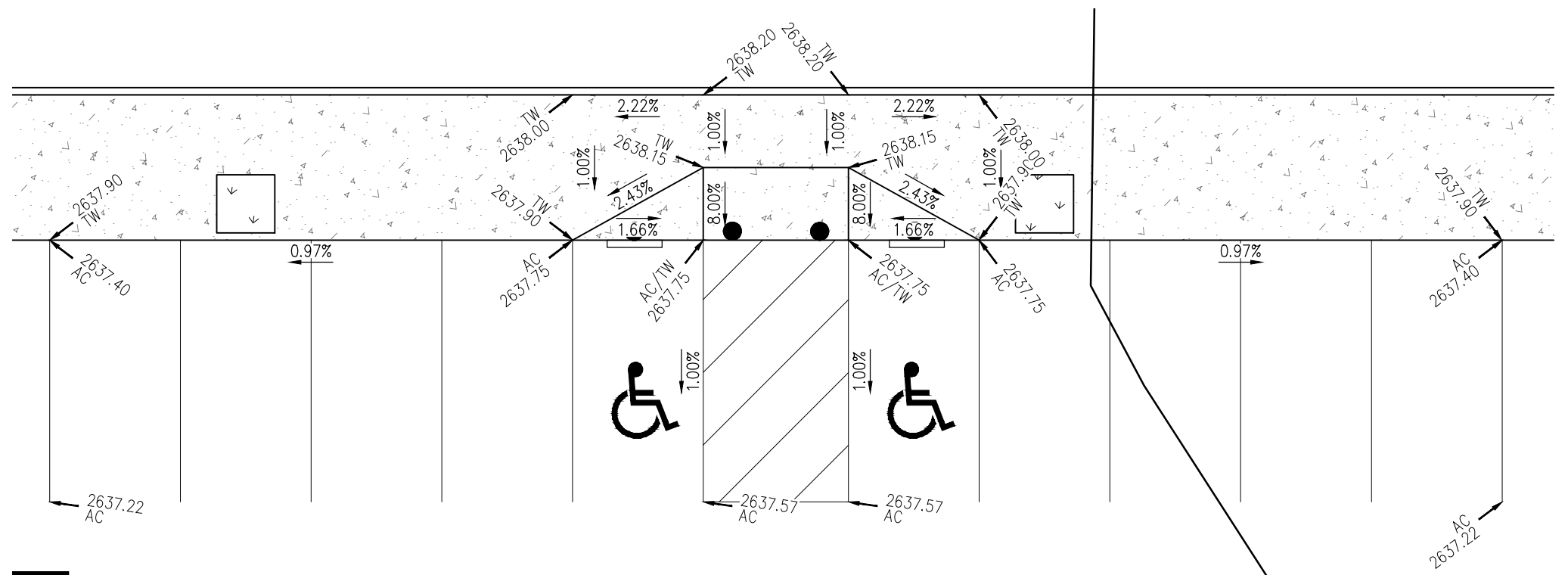
NOTE:
 1. CENTERLINE STATION PER RIGHT-OF-WAY MAP S-471 DATED NOVEMBER 1973.
 2. GENERAL SITE GRADING PER S.D. COUNTY DESIGN STANDARDS DS-8, DS-10, AND DS-11. SEE SHEET 10.
 3. PERMANENT POST-CONSTRUCTION BMP DEVICES (BIO-SWALES SHOWN ON THIS SHEET) SHOWN ON PLAN SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL OF THE COUNTY OF SAN DIEGO.
 4. OVERFLOW DRAINAGE INLET AND PIPE IN PLACE TO DISCHARGE RUNOFF GENERATED FROM A STORM LARGER THAN A 100-YEAR STORM EVENT.



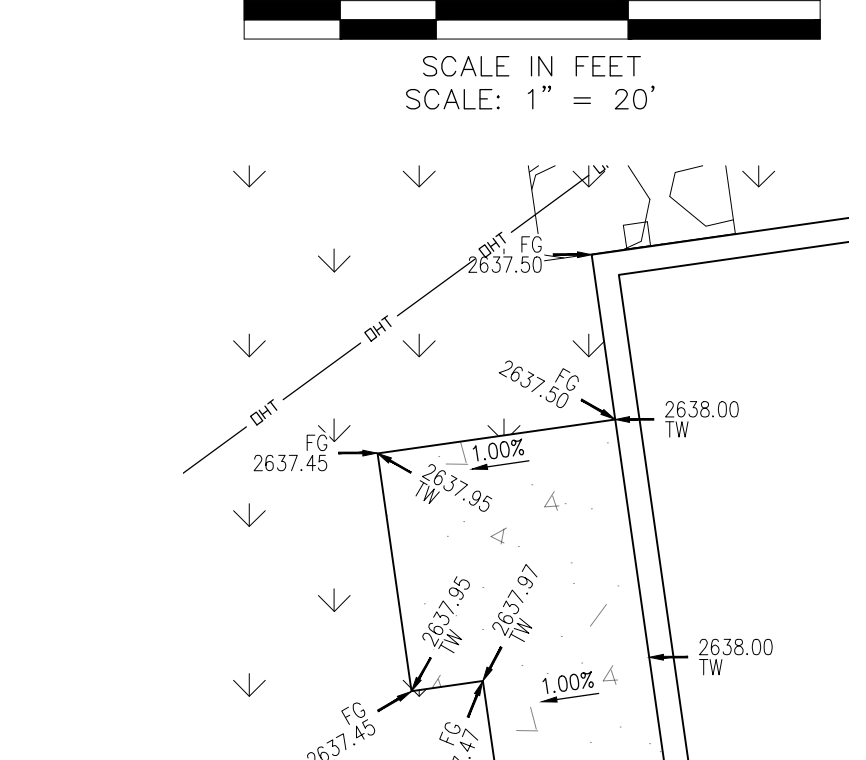
3 SIDEWALK DETAIL
NTS



1 TRASH ENCLOSURE & RAMP DETAIL
1"=10"



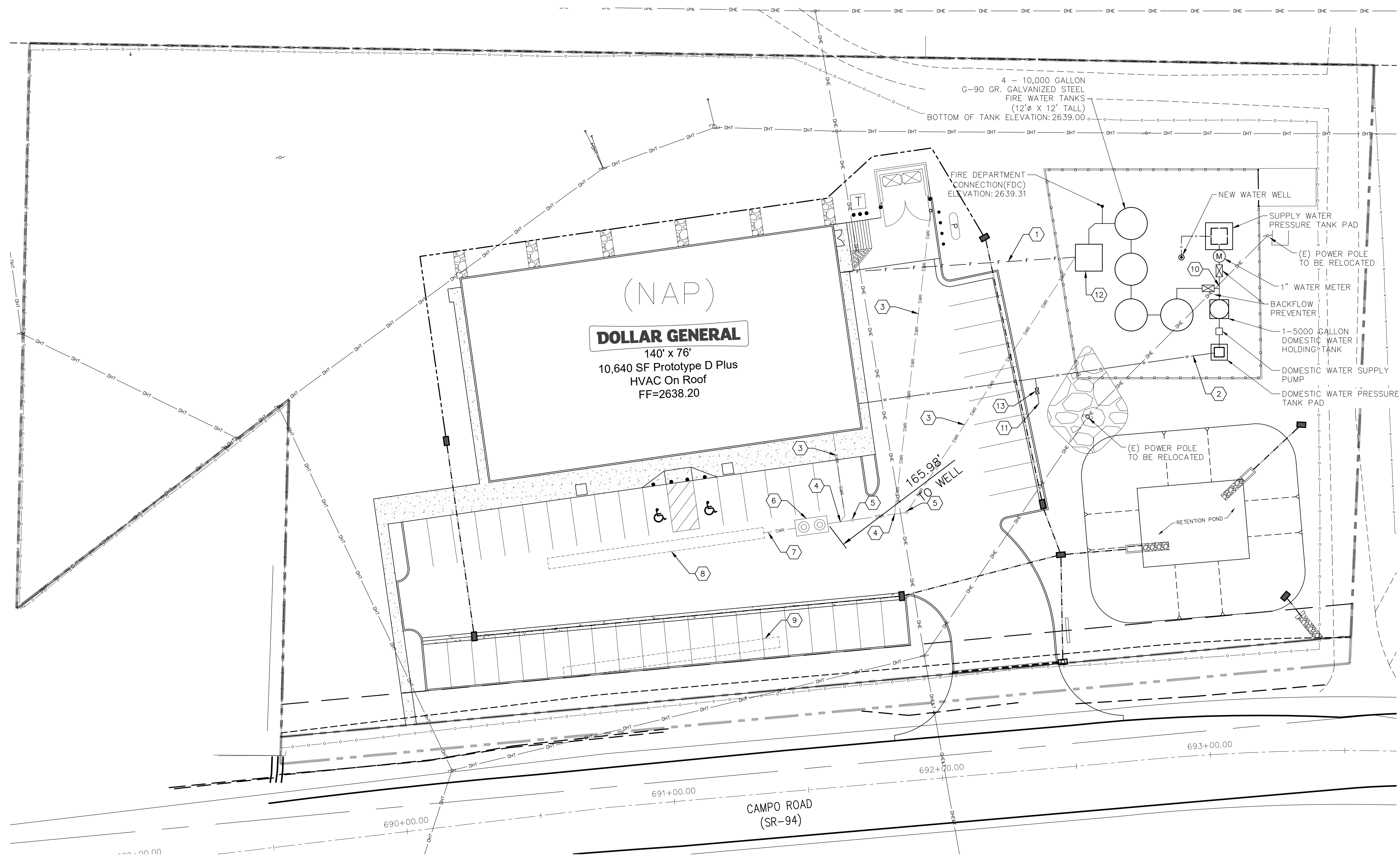
2 ACCESSIBLE RAMP DETAIL
1"=10"



5 SIDEWALK PLAN DETAIL
1"=4"

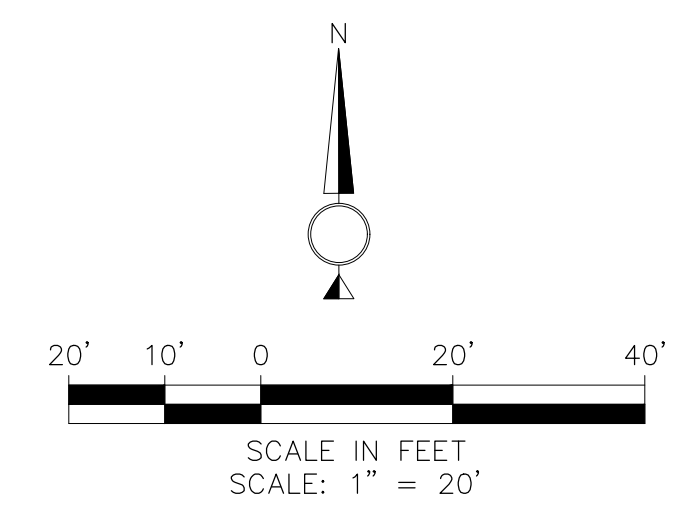
COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 4	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
BENCH MARK			PLAN FOR: DOLLAR GENERAL - CAMPO, CA. GRADING AND DRAINAGE PLAN		
DESCRIPTION: BRASS CAP DISK			CALIFORNIA COORDINATE INDEX 166-1929		
LOCATION: SET IN ROCK OUTCROP			APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		
RECORD FROM: NGS BENCHMARK NO. DC0012			ENGINEER OF WORK: GREGORY O. BLACK		
ELEVATION: 2594.92' DATUM: NAVD 88			R.C.E.: 53952 DATE: 6/21/2021		
DATUM:			GRADING PERMIT NO: PDS2019-LDGRMJ-30250		

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Jun. 21, 2021
 PHONE NO. (661) 330-2361 // EMAIL: goblack@palmeis.com



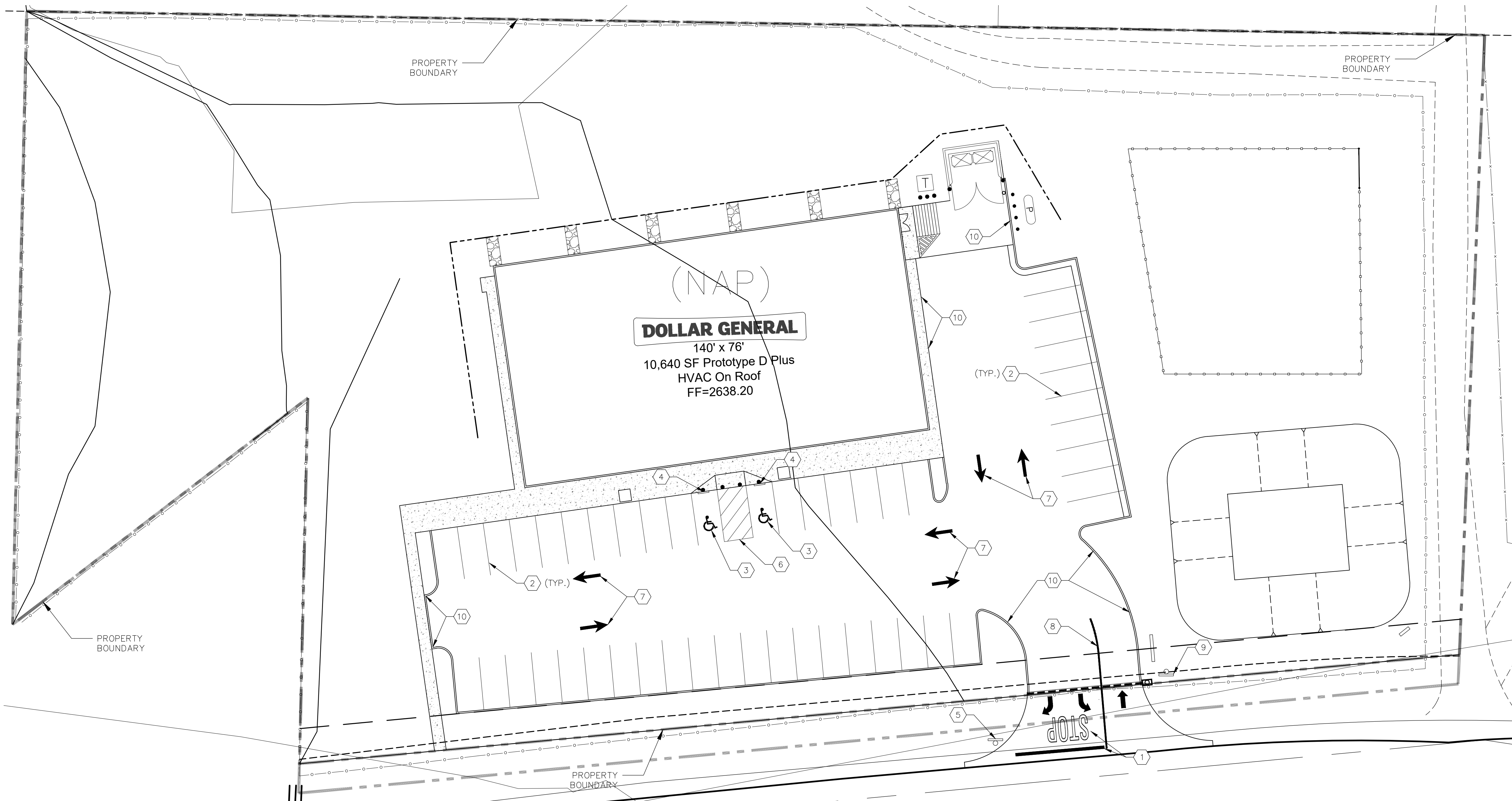
CONSTRUCTION CALLOUTS

- 1 INSTALL 4" C900 PVC DR18 FROM FIRE PUMP HOUSE TO BUILDING SPRINKLER CONNECTION.
- 2 1-1/4" PVC (SCH 40) DOMESTIC WATER IN TRENCH FROM PUMP TO NEW BUILDING.
- 3 INSTALL 4" PVC SDR26 SEWER LATERAL. SLOPE AT 1/4" PER FOOT.
- 4 INSTALL 4" WYE AS PER S.D. CO. REGIONAL STD. DWG SS-04, SHEET 10.
- 5 INSTALL SEWER CLEAN OUT PER COUNTY OF SAN DIEGO REGIONAL STANDARD DRAWING SC-01, SHEET 10.
- 6 1000 GALLON SEPTIC TANK - SEE SEPTIC PERMIT FOR DETAILS.
- 7 4" SEWER FROM SEPTIC TANK TO SEEPAGE PIT.
- 8 HORIZONTAL SEEPAGE PIT - 81' LONG, 4' WIDE TRENCH, 6' SIDEWALL DEPTH, 2'-4" CAP DEPTH, BOTTOM OF PIT @ 8'-9" BGS - SEE SEPTIC PERMIT FOR COMPLETE CONSTRUCTION DETAILS.
- 9 RESERVE AREA FOR SECONDARY SEEPAGE PIT - SEE SEPTIC PERMIT FOR DETAILS.
- 10 1-1/4" PVC (SCH 40) DOMESTIC WATER TO TANKS.
- 11 1" IRRIGATION CONNECTION - SEE LANDSCAPING PLANS. (DESIGN BY OTHERS)
- 12 FIRE PUMP HOUSE - SEE FIRE SPRINKLER PLANS. (DESIGN BY OTHERS)
- 13 IRRIGATION BACK FLOW PREVENTER - SEE LANDSCAPING PLANS.



COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 5	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
BENCH MARK					
DESCRIPTION: BRASS CAP DISK					
LOCATION: SET IN ROCK OUTCROP					
RECORD FROM: NGS BENCHMARK NO. DC0012					
ELEVATION: 2594.92' DATUM: NAVD 88					
DATE: _____ DATUM: _____					
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER			ENGINEER OF WORK: GREGORY O. BLACK		
NAME: _____			R.C.E.: 53952 DATE: 6/21/2021		
DATE: _____			GRADING PERMIT NO: PDS2019-LDGRMJ-30250		

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Jun. 21, 2021
 PHONE NO. (661)330-2361 // EMAIL: goblack@palmis.com



STRIPING LEGEND:

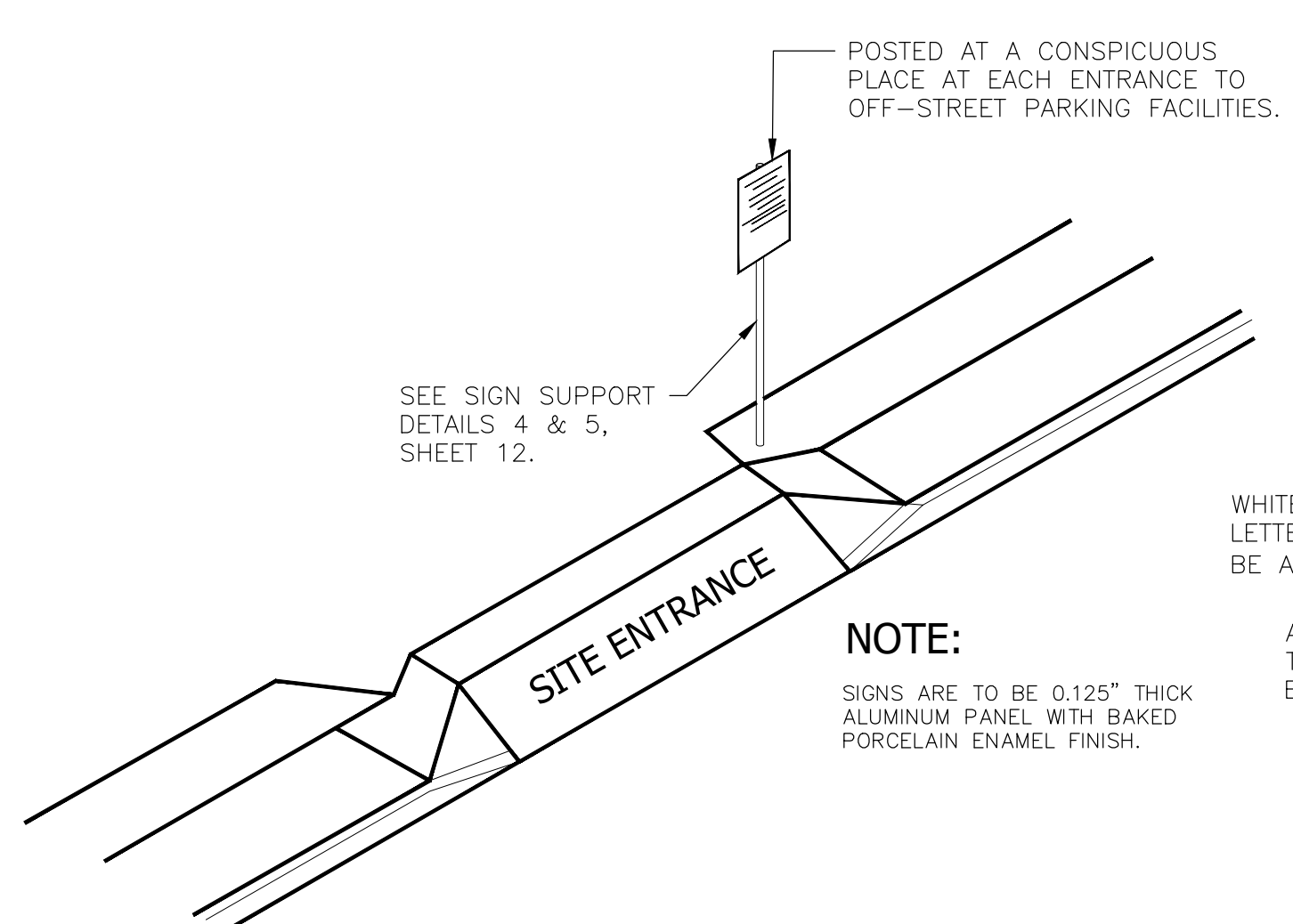
YELLOW CURBING AND BOLLARDS - PARKING LOT	SURFACES SHALL BE CLEAN, DRY AND METAL SURFACES FREE OF HEAVY RUST, 2 COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL SAFETY YELLOW B55Y300
RED CURBING STRIPING - PARKING LOT	SURFACES SHALL BE CLEAN, DRY AND METAL SURFACES FREE OF HEAVY RUST, 2 COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL SAFETY RED B55R300
STRIPING - PARKING LOT	SURFACES SHALL BE CLEAN, DRY TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT WHITE TM5495
HANDICAP STRIPING - PARKING LOT	SURFACES SHALL BE CLEAN, DRY TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT "H.C." BLUE

STRIPING CONSTRUCTION NOTES

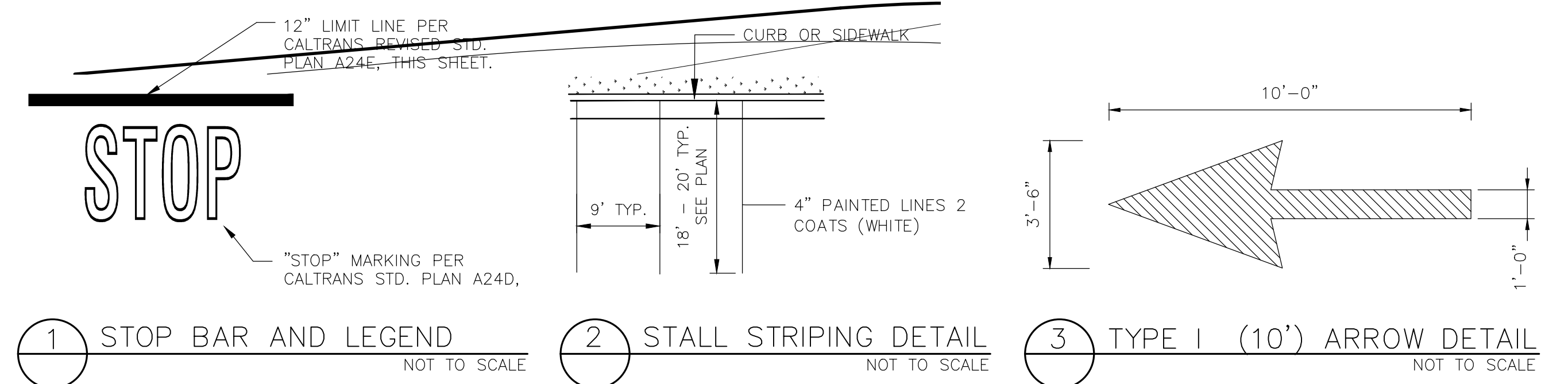
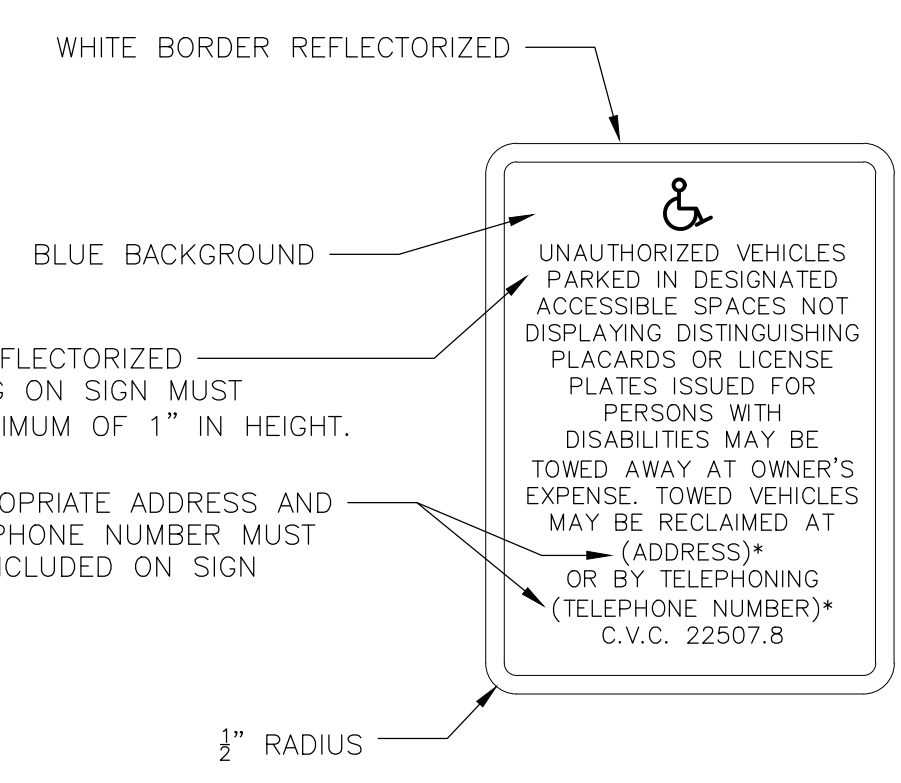
- ① PLACE STOP BAR AND LEGEND AS PER DETAIL 1, THIS SHEET.
- ② PAINT PARKING STALL STRIPING AS PER DETAIL 2, THIS SHEET.
- ③ PLACE ACCESSIBLE PARKING PAINTED SYMBOL AS PER DETAIL 6 ON SHEET 12.
- ④ PLACE ACCESSIBLE PARKING SIGN AS PER DETAIL 3 ON SHEET 12.
- ⑤ PLACE R-1 STOP SIGN.
- ⑥ 4" WIDE DIAGONAL STRIPES PAINTED BLUE AT 24" O.C.
- ⑦ DIRECTIONAL ARROW PAINTED WHITE PER DETAIL 3, THIS SHEET.
- ⑧ 4" WIDE TRAFFIC DIVIDING STRIP PAINTED WHITE PER CALTRANS DETAIL 21, PLATE A20A ON SHEET 11.
- ⑨ PLACE ACCESSIBLE SITE ENTRANCE PER DETAIL 4, THIS SHEET.
- ⑩ FIRE LANE STRIPING - PAINT CURBING RED WITH "NO PARKING FIRE LANE" IN 4" TALL WHITE LETTERS, SPACED NO GREATER THAN 30' APART.

NOTES:

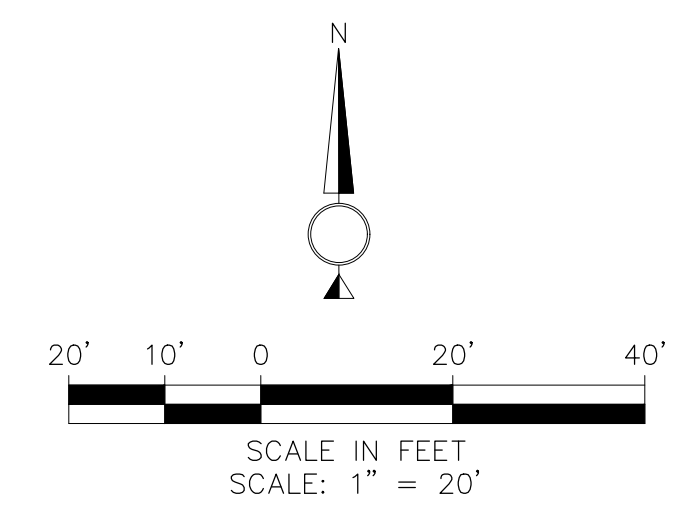
1. SEE HORIZONTAL CONTROL PLAN FOR ADDITIONAL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL PAINTED SURFACES SHALL RECEIVE 2 COATS MINIMUM; ADDITIONAL COATS MAY BE REQUIRED FOR ACCEPTABLE COVERAGE.
4. ADDRESS NUMBERS TO BE A PART OF DOLLAR GENERAL PYLON SIGN.



NOTE:
SIGNS ARE TO BE 0.125" THICK ALUMINUM PANEL WITH BAKED PORCELAIN ENAMEL FINISH.



① STOP BAR AND LEGEND NOT TO SCALE ② STALL STRIPING DETAIL NOT TO SCALE ③ TYPE I (10') ARROW DETAIL NOT TO SCALE



COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:
BENCH MARK		
DESCRIPTION: BRASS CAP DISK		
LOCATION: SET IN ROCK OUTCROP		
RECORD FROM: NGS BENCHMARK NO. DC0012	ELEVATION: 2594.92' DATUM: NAVD 88	
DATE:		

PRIVATE CONTRACT		
SHEET 6	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
PLAN FOR: DOLLAR GENERAL - CAMPO, CA. SIGNING AND STRIPING PLAN		
CALIFORNIA COORDINATE INDEX 166-1929		
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK: GREGORY O. BLACK	
NAME:	R.C.E.: 53952	DATE: 6/21/2021
DATE:	GRADING PERMIT NO: PDS2019-LDGRMJ-30250	

④ SITE ENTRANCE SIGN NOT TO SCALE

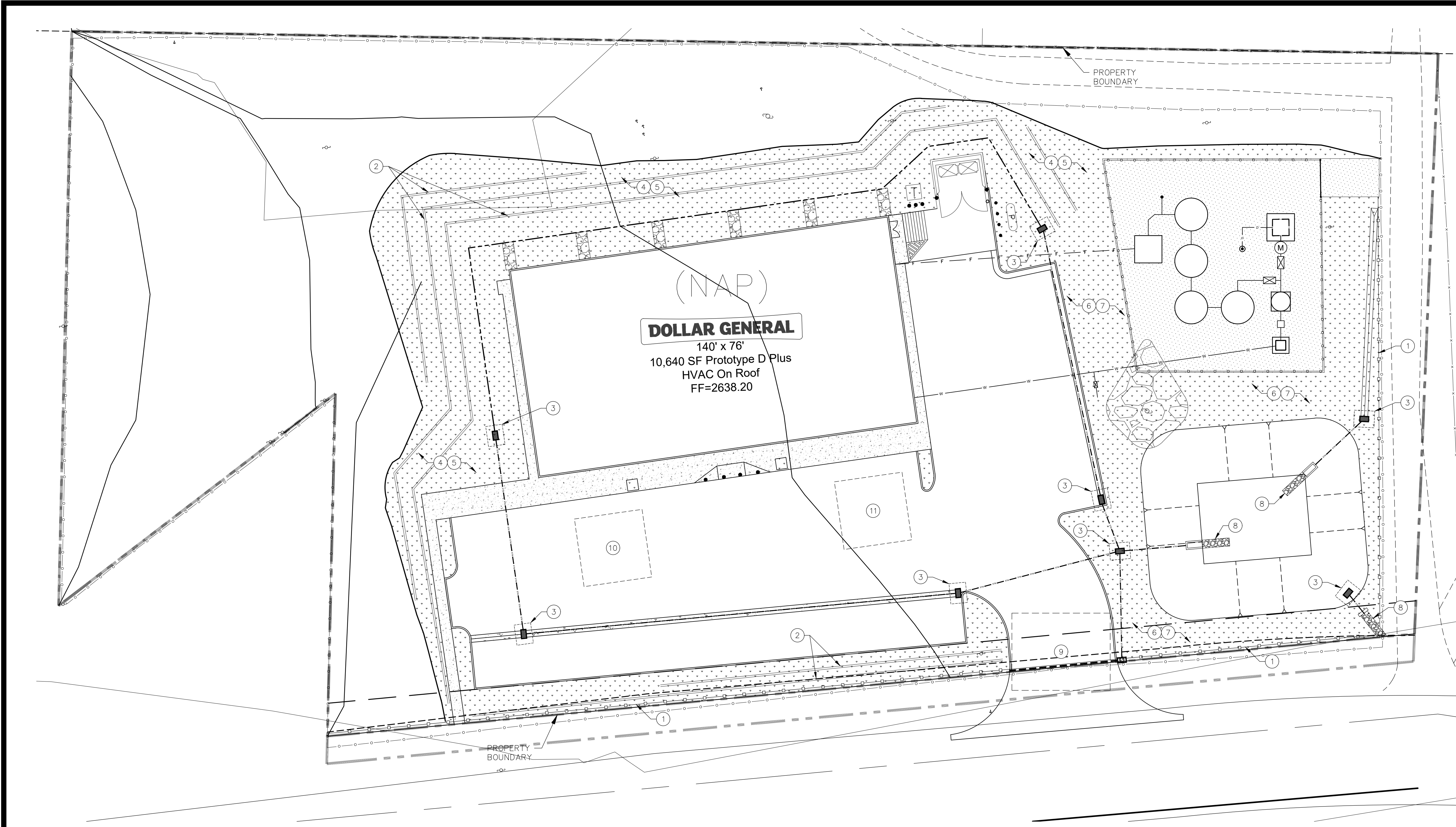
ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Jun. 21, 2021
PHONE NO. (661)330-2361 // EMAIL: goblack@palmels.com

CONSTRUCTION BMPs (SWQMP TABLE 7)		
LOCATION ID	BMP NO.	BMP TITLE
1	SC-1	TEMPORARY SILT FENCE
2	SC-5	FIBER ROLLS
3	SC-10	TEMPORARY DRAINAGE INLET PROTECTION
4	SS-3	HYDRAULIC MULCH
5	SS-4	HYDROSEEDING
6	SS-6	STRAW MULCH
7	SS-8	WOOD MULCH
8	SS-10	OUTLET PROTECTION/VELOCITY DISSIPATION DEVICES
9	TC-1	TEMPORARY CONSTRUCTION ENTRANCE/EXIT
10	WM-1	MATERIAL DELIVERY AND STORAGE
11	WM-8	CONCRETE WASTE MANAGEMENT

*TO BE PROVIDED ON ALL CATCH BASINS.
 REFERENCE: CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL, MAY 2017
 BMP DETAILS ARE SHOWN ON SHEET 8
 AS SITE CONDITIONS DICTATE, ADDITIONAL BMPs MAY BE IMPLEMENTED OR SUBSTITUTED AS DIRECTED AND APPROVED BY THE COUNTY OF SAN DIEGO.

TOTAL DISTURBED AREA: 1.65 ACRES

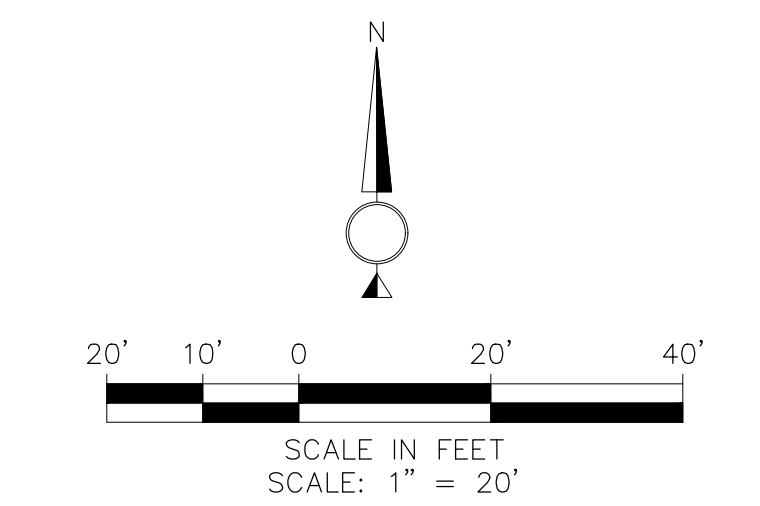
THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR THE PERMIT/APPROVAL TO VIOLATE ANY FEDERAL, STATE, OR COUNTY LAWS, ORDINANCES, REGULATIONS, OR POLICIES INCLUDING, BUT NOT LIMITED TO THE FEDERAL ENDANGERED SPECIES ACT AND CLEAN WATER ACT. GRADING AND/OR FURTHER DEVELOPMENT ARE PROHIBITED WITHIN THE AREAS DESIGNATED "LIMITS OF JURISDICTIONAL HABITAT" UNTIL FEDERAL PERMITS AND STATE PERMITS (IF ANY) HAVE BEEN ACQUIRED.



EROSION CONTROL, SWMP AND BMP NOTES

- STORM WATER MANAGEMENT**
- DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125% SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
 - NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME WITH DEMONSTRATING TO THE SAN DIEGO COUNTY D.P.W. DIRECTOR'S SATISFACTION THAT ADEQUATE EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED. ANY DISTURBED AREA THAT IS NOT ACTIVELY GRADED FOR 15 DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LONG-TERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
 - THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORM WATER REGULATIONS AT ALL TIMES THE B.M.P.'S (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE MAINTENANCE OF THE B.M.P.'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE B.M.P.'S MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED B.M.P.'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
- EMERGENCY EROSION CONTROL MEASURES**
- ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
 - TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF THE SLOPES.
 - MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
 - AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1, ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. BETWEEN OCTOBER 1, AND APRIL 15, APPROVED CROSS FLOW PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
- CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.**
- GRAVEL BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
 - THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE GRAVEL BAGS, CATCH BASINS, AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- SILTATION AND SEDIMENT CONTROL MEASURES**
- THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
 - SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE COUNTY ENGINEER.
 - SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH GRAVEL BAGS FROM TOP OF PIPE TO TOP OF DIKE.
 - ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF GRAVEL BAGS WITH A TOP ELEVATION LEVEL WITH, AND TWO GRAVEL BAGS BELOW, THE GRADED SURFACE OF THE STREET. GRAVEL BAGS ARE TO BE PLACED WITH LAPPED COURSES. THE INTERVALS PRESCRIBED BETWEEN GRAVEL BAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT NOT EXCEED THE FOLLOWING:
- | GRADE OF CHANNEL | INTERVAL AS REQ. | # OF BAGS HIGH |
|------------------|------------------|----------------|
| LESS THAN 2% | 200 FT. MAX. | 1 |
| 2% TO 4% | 100 FEET | 1 |
| 4% TO 6% | 50 FEET | 1 |
| 6% TO 10% | 50 FEET | 2 |
| OVER 10% | 25 FEET | 2 |
- PROVIDE A GRAVEL BAG SILT BASIN OR TROP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
 - GRAVEL BAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS READY FOR USE WHEN REQUIRED.
 - ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM, IF POSSIBLE. MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
 - PROVIDE ROCK RIPRAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENuded SLOPES, OR IMPERVIOUS SURFACES.
 - ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES, I.E., COUNTY ENGINEER, DEPARTMENT OF ENVIRONMENTAL HEALTH, FLOOD CONTROL AND OFFICE OF ENVIRONMENTAL MANAGEMENT ETC.
- GRADE OF THE STREET**
- | GRADE OF THE STREET | INTERVAL AS REQUIRED |
|---------------------|----------------------|
| LESS THAN 2% | 100 FEET |
| 2% TO 4% | 50 FEET |
| 4% TO 10% | 50 FEET |
| OVER 10% | 25 FEET |
- ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.**
- PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:**
- | GRADE OF CHANNEL | INTERVALS BETWEEN CHECK DAMS |
|------------------|------------------------------|
| LESS THAN 3% | 100 FEET |
| 3% TO 6% | 50 FEET |
| OVER 6% | 25 FEET |
- PROVIDE VELOCITY CHECK DAMS IN ALL STREET AREAS ACCORDING TO INTERVALS INDICATED BELOW. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAG, TIMBER, OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE COUNTY ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. VELOCITY CHECK DAMS MAY ALL SERVE AS SEDIMENT TRAPS.**
- BMP STENCIL PLACEMENT**
- ALL STORM DRAIN INLETS AND CATCH BASINS WITHIN THE PROJECT AREA SHALL HAVE A STENCIL OR TILE PLACED WITH PROHIBITIVE LANGUAGE (SUCH AS: "NO DUMPING - 1 LIVE IN <<NAME RECEIVED WATER>>") AND/OR GRAPHICAL ICONS TO DISCOURAGE ILLEGAL DUMPING.
 - SIGNS AND PROHIBITIVE LANGUAGE AND/OR GRAPHICAL ICONS, WHICH PROHIBIT ILLEGAL DUMPING, MUST BE POSTED AT PUBLIC ACCESS POINTS ALONG CHANNELS AND CREEKS WITHIN THE PROJECT AREA.
 - LEGIBILITY OF STENCILS, TILES AND SIGNS MUST BE MAINTAINED AND TILES MUST BE PLACED FLUSH WITH THE TOP OF CONCRETE TO REDUCE TRIPPING BY PEDESTRIANS.

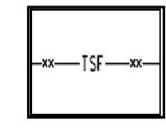
- BMP LIMITATIONS AND RESTRICTIONS**
- APPLICATION RATES SHALL BE 3500 POUNDS PER ACRE MINIMUM FOR 2:1 OR SHALLOWER SLOPES AND 4000 POUNDS PER ACRE FOR SLOPES STEEPER THAN 2:1.
 - B.M. SHALL BE APPLIED AT LEAST 24 HOURS BEFORE OR AFTER RAIN FALL.
 - THE SITE MUST BE PROTECTED WITH BROW DITCHES AND/OR DIVERSION BERMS AT THE TOP OF SLOPES TO DIVERT FLOW FROM THE FACE OF THE SLOPE.
 - B.M. SHALL BE APPLIED TO PROVIDE 100% COVERAGE (I.E. APPLICATION FROM MULTIPLE ANGLES).
 - FOR PERMANENT EROSION CONTROL PURPOSES, B.M. MUST BE INSTALLED IN CONJUNCTION WITH WEEDED EROSION CONTROL VEGETATION.
 - A LETTER FROM THE HYDROSEED CONTRACTOR CERTIFYING THAT THE B.M. HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED APPLICATION RATES AND COVERAGE REQUIREMENTS SHALL BE SUBMITTED TO THE COUNTY INSPECTOR FOR APPROVAL.



COUNTY APPROVED CHANGES		PRIVATE CONTRACT	
DESCRIPTION:	APPROVED BY:	DATE:	
BENCH MARK		SHEET 7	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 18 SHEETS
DESCRIPTION: BRASS CAP DISK		PLAN FOR: DOLLAR GENERAL - CAMPO, CA. CONSTRUCTION BMP PLAN	
LOCATION: SET IN ROCK OUTCROP		CALIFORNIA COORDINATE INDEX 166-1929	
RECORD FROM: NGS BENCHMARK NO. DC0012		APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER	
ELEVATION: 2594.92'		ENGINEER OF WORK: GREGORY O. BLACK	
DATUM: NAVD 88		R.C.E.: 53952 DATE: 6/21/2021	
DATUM:		GRADING PERMIT NO: PDS2019-LDGRMJ-30250	

ENGINEER'S NAME: GREG BLACK, REG. 53952 DATE: Jun. 21, 2021
 PHONE NO. (661) 330-2361 // EMAIL: goblack@palmeis.com

Temporary Silt Fence **SC-1**



Standard Symbol

BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
A silt fence is a temporary linear sediment barrier of permeable fabric designed to intercept and slow the flow of sediment-laden sheet flow runoff. Silt fences allow sediment to settle from runoff before water leaves the construction site.

Appropriate Applications
Below the toe of exposed and erodible slopes.
Down-slope of exposed soil areas.
Around temporary stockpiles.
Along streams and channels.
Along the perimeter of a project.

Limitations
Not effective unless trenched and keyed in.
Not intended for use as mid-slope protection on slopes greater than 4:1 (HV).
Must be maintained.
Must be removed and disposed of.
Don't use below slopes subject to creep, slumping, or landslides.

Fiber Rolls **SC-5**



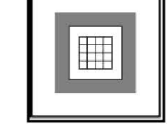
Standard Symbol

BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
A fiber roll consists of wood excelsior, rice or wheat straw, or coconut fibers that is rolled or bound into a tight tubular roll and placed on the toe and face of slopes to intercept runoff, reduce its flow velocity, release the runoff as sheet flow and provide removal of sediment from the runoff. Fiber rolls may also be used for drainage inlet protection and as check dams under certain situations.

Appropriate Applications
This BMP may be implemented on a project-by-project basis with other BMPs when determined necessary and feasible by the RE.
Fiber rolls may be applied as both temporary and permanent sediment controls.
Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and speed runoff as sheet flow.
Below the toe of exposed and erodible slopes.
Fiber rolls may be used as check dams in unlined ditches or as temporary drainage inlet protection Down-slope of exposed soil areas.
Around temporary stockpiles.
Along the perimeter of a project.

Temporary Drainage Inlet Protection **SC-10**



Standard Symbol

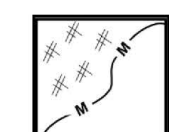
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Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Temporary drainage inlet protection consists of devices used at storm drain inlets that detain and/or filter sediment-laden runoff prior to discharge into storm drainage systems. This is achieved by allowing sediment to settle and/or filtering sediment upstream of a linear sediment barrier.

Appropriate Applications
Where ponding will not encroach into highway traffic.
Where sediment laden surface runoff may enter an inlet.
Where disturbed drainage areas have not yet been permanently stabilized.
Where the drainage area is 1 ac or less.
Used year-round.

Limitations
Requires an adequate area for water to pond without encroaching upon traveled way and should not present an obstacle to oncoming traffic.
May require other methods of temporary protection to prevent sediment-laden stormwater and non-stormwater discharges from entering the storm drain system.
Sediment removal may be difficult in high flow conditions or if runoff is heavily sediment laden. If high flow conditions are expected, use other on-site sediment trapping techniques, such as SC-4 "Check Dams," in conjunction with temporary drainage inlet protection.

Hydraulic Mulch **SS-3**



Standard Symbol

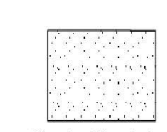
BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Hydraulic mulch consists of applying a mixture of natural fibers and a stabilizing compound with hydroseeding equipment to temporarily protect exposed soil from erosion by rainfall impact or wind. This is one of five temporary soil stabilization alternatives to consider.

Appropriate Applications
Hydraulic mulch is applied to disturbed areas requiring temporary protection until permanent vegetation is established, or disturbed areas that must be re-disturbed following an extended period of inactivity.

Limitations
Wood fiber hydraulic mulches are generally short-lived (only last a part of a growing season) and require (24 hours or more) time to dry before rainfall occurs to be effective.
Paper mulches are not permitted.
Avoid use in areas where the mulch would be incompatible with immediate future earthwork activities and would have to be removed.
Cellulose fiber mulches alone may not perform well on steep slopes or in coarse soils.

Hydroseeding **SS-4**



Standard Symbol

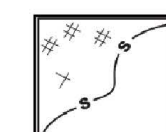
BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Hydroseeding typically consists of applying a mixture of wood, fiber, seed, fertilizer, and stabilizing emulsion with hydromulch equipment, which temporarily protects exposed soils from erosion by water and wind.

Appropriate Applications
Hydroseeding is applied on disturbed soil areas requiring temporary protection until permanent vegetation is established or disturbed soil areas that must be re-disturbed following an extended period of inactivity. Can be used in conjunction with other reseeded erosion control products.

Limitations
Hydroseeding may be used alone only when there is sufficient time in the season to ensure adequate vegetation establishment and erosion control. Otherwise, hydroseeding must be used in conjunction with a soil binder or mulch, such as SS-5 "Soil Binders" and SS-6 "Straw Mulch."
Steep slopes are difficult to protect with temporary seeding.
Temporary seeding may not be appropriate in dry periods without supplemental irrigation.
Temporary vegetation may have to be removed before permanent vegetation is applied.
Temporary vegetation is not appropriate for short-term inactivity.

Straw Mulch **SS-6**



Standard Symbol

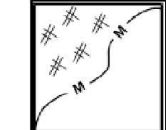
BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Straw mulch consists of placing a uniform layer of straw and incorporating it into the soil with a studded roller, or anchoring it with a tackifier or Rolled Erosion Control Product (RECP). This is one of the temporary soil stabilization alternatives to consider.

Appropriate Applications
Straw mulch is typically used for soil stabilization as a temporary surface cover on disturbed areas until soils can be prepared for revegetation and permanent vegetation is established.
Also typically used in combination with temporary and/or permanent seeding strategies to enhance plant establishment.

Limitations
Availability of erosion control contractors and straw may be limited prior to the rain events due to high demand.
There is a potential for introduction of weed-seed and unwanted plant material.
Straw applied by hand is more time intensive and potentially costly.
May have to be removed prior to permanent seeding or soil stabilization.

Wood Mulching **SS-8**



Standard Symbol

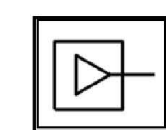
BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Wood mulching consist of applying a mixture of shredded bark, wood chips, or tree trimmings on top of soil. Wood mulch is mostly applicable to landscape projects.
The primary function of wood mulching is to reduce erosion by protecting bare soil from rainfall impact, increasing infiltration, and reducing runoff.

Appropriate Applications
Wood mulching is considered a temporary soil stabilization alternative in the following situations:
As a stand-alone temporary surface cover on disturbed areas until soils can be prepared for revegetation and permanent vegetative cover can be established.
As short term, non-vegetative ground cover on slopes to reduce rainfall impact, decrease the velocity of sheet flow, settle out sediment and reduce wind erosion.
In combination with other BMPs, mulch may be used to stabilize roadway embankment slopes and control wind erosion.

Limitations
Wood mulch may introduce unwanted species of vegetation.
Shredded wood does not withstand concentrated flows and is prone to sheet erosion.

Outlet Protection/Velocity Dissipation Devices **SS-10**



Standard Symbol

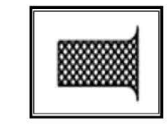
BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
These devices are placed at pipe outlets to prevent scour and reduce the velocity and/or energy of stormwater flows.

Appropriate Applications
These devices may be used at the following locations:
Outlets of pipes, drains, culverts, slope drains, diversion ditches, swales, conduits or channels.
Outlets located at the bottom of mild to steep slopes.
Discharge outlets that carry continuous flows of water.
Outlets subject to short, intense flows of water, such as flash floods.
Points where lined conveyances discharge to unlined conveyances.

Limitations
Loose rock may have stones washed away during high flows.
Grouted rock slope protection may break up in areas of freeze and thaw.
If there is not adequate drainage, and water builds up behind grouted rock slope protection, it may cause the grouted rock slope protection to break up due to the resulting hydrostatic pressure.
Outlet protection may negatively impact the channel habitat.

Temporary Construction Entrance/Exit **TC-1**



Standard Symbol

BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

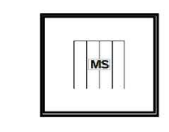
Definition and Purpose
A temporary construction entrance/exit is defined by a point of entrance/exit to a construction site that stabilizes to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Appropriate Applications
Where dirt or mud can be tracked onto public roads.
Adjacent to water bodies.
Where poor soils are encountered.
Where dust is a problem during dry weather conditions.

Limitations
Site conditions will dictate design and need.
Limit the points of entrance/exit to the construction site.
Limit speed of vehicles to control dust.

Standards and Specifications
General Requirements
Temporary construction entrance/exit must comply with Standard Specification Section 13-7.03 Temporary Construction Roadways and Entrances.

Material Delivery and Storage **WM-1**



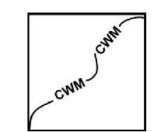
Standard Symbol

BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Procedures and practices for the proper handling and storage of materials in a manner that minimizes or eliminates the discharge of these materials to the storm drain system or to receiving waters.

Appropriate Applications
These procedures are implemented at all construction sites with delivery and storage of the following:
Hazardous chemicals such as:
Acids
Lime
Glaes
Adhesives
Paints
Solvents
Curing compounds
Soil stabilizers and binders
Fertilizers
Detergents
Plaster
Petroleum products such as fuel, oil, and grease
Asphalt and concrete components
Pesticides and herbicides
Other materials that may be detrimental if released to the environment

Concrete Waste Management **WM-8**



Standard Symbol

BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
These are procedures and practices that are designed to minimize or eliminate the discharge of concrete waste materials to the storm drain systems or watercourses.

Appropriate Applications
Concrete waste management procedures and practices are implemented on construction projects where concrete is used as a construction material or where concrete dust and debris result from demolition activities. Where slurries containing portland cement concrete (PCC) or asphalt concrete (AC) are generated, such as from sawcutting, coring, grinding, grinding, and hydro-concrete demolition.
Where concrete trucks and other concrete-coated equipment are washed on site, when approved by the Resident Engineer (RE). See also NS-R, "Vehicle and Equipment Cleaning."
Where mortar-mixing stations exist.

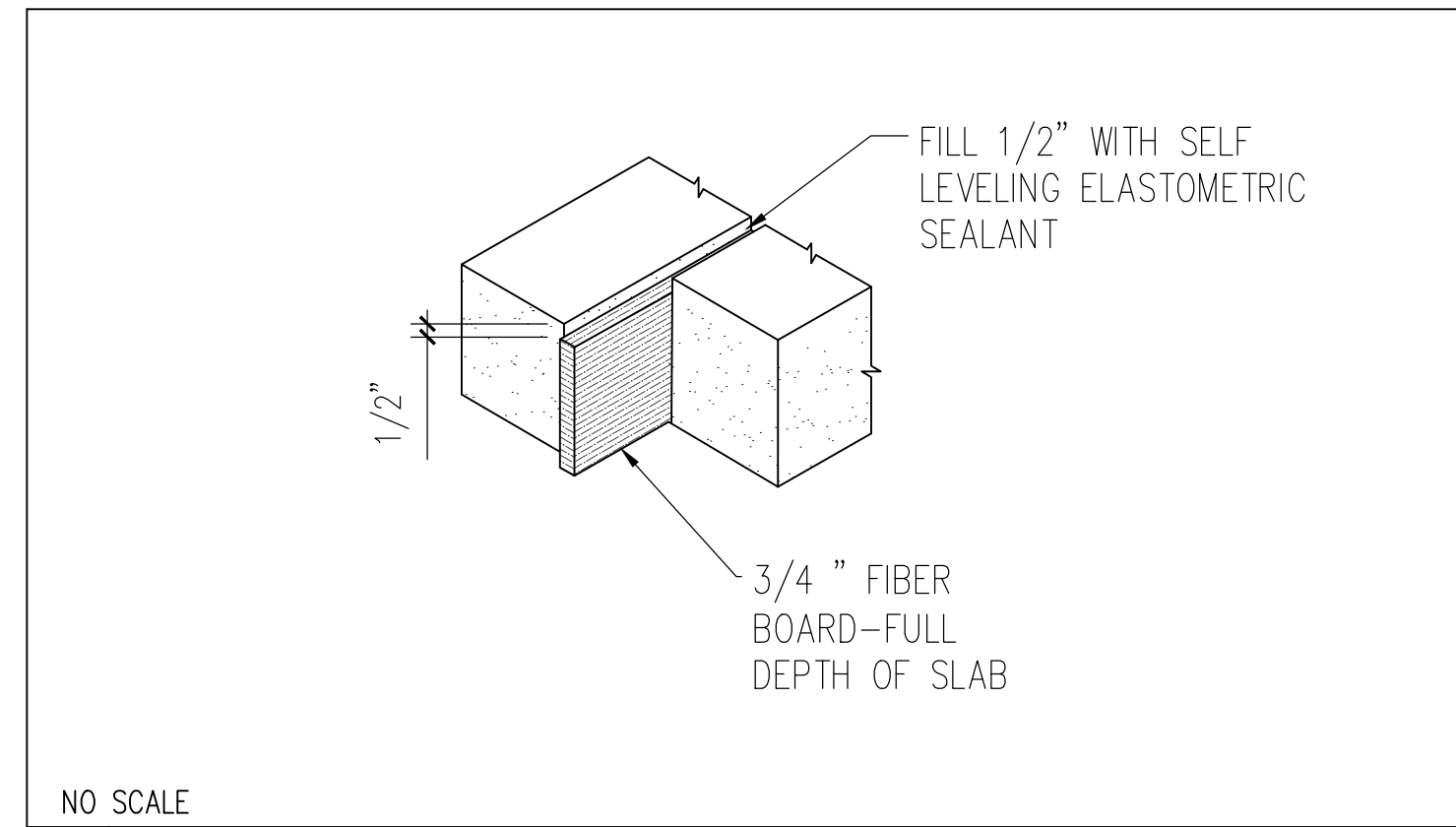
Limitations
None identified.

Standards and Specifications
Education
Educate employees, subcontractors, and suppliers on the concrete waste management techniques described herein.
The WPC Manager shall oversee and enforce concrete waste management procedures.

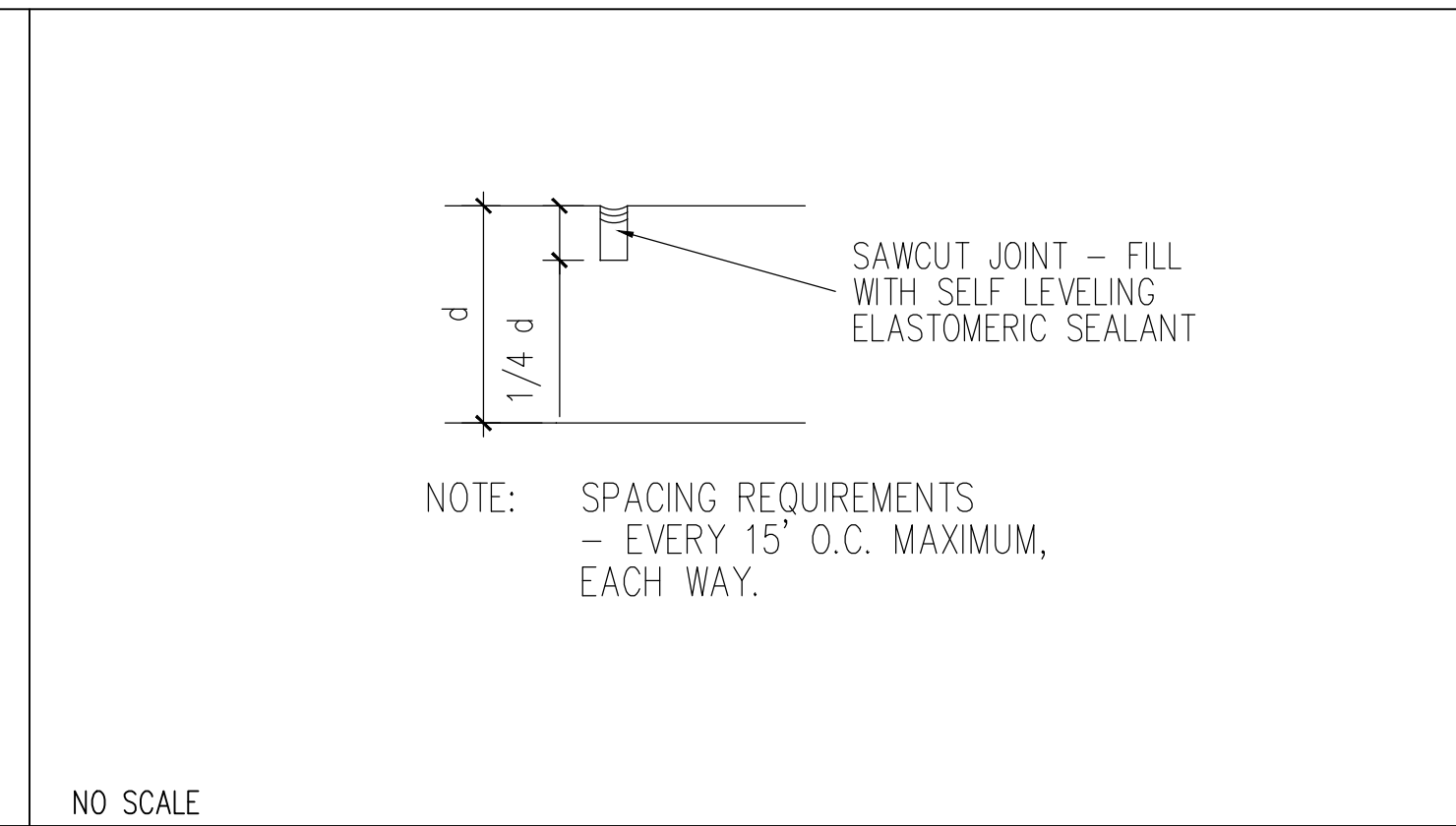
NOTE:
DATA SHEET COVERS PROVIDED FOR REFERENCE ONLY. CONSULT CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL AT [HTTP://WWW.DOT.CA.GOV/HG/ENV/STORMWATER/INDEX.HTM](http://www.dot.ca.gov/hg/env/stormwater/index.htm) FOR FULL IMPLEMENTATION DETAILS

COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 8	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
BENCH MARK			PLAN FOR:		
DESCRIPTION: BRASS CAP DISK			DOLLAR GENERAL - CAMPO, CA. CONSTRUCTION BMP DETAILS		
LOCATION: SET IN ROCK OUTCROP			CALIFORNIA COORDINATE INDEX 166-1929		
RECORD FROM: NGS BENCHMARK NO. DC0012			APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		
ELEVATION: 2594.92' DATUM: NAVD 88			ENGINEER OF WORK: GREGORY O. BLACK		
DATUM:			R.E.E.: 53952 DATE: 6/21/2021		
			GRADING PERMIT NO: PDS2019-LDGRMJ-30250		

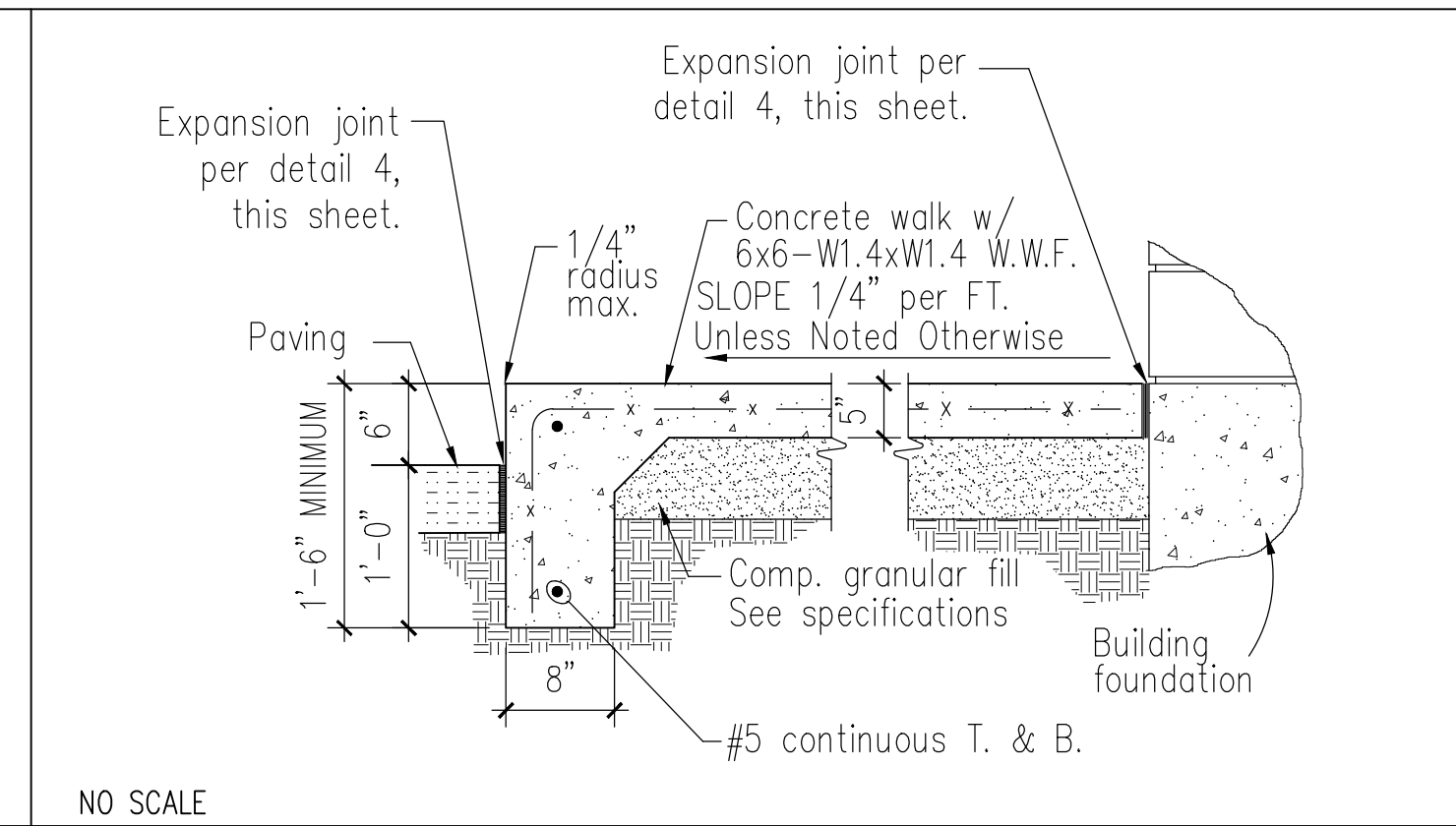
ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Jun. 21, 2021
PHONE NO. (661)330-2361 // EMAIL: goblack@palmeis.com



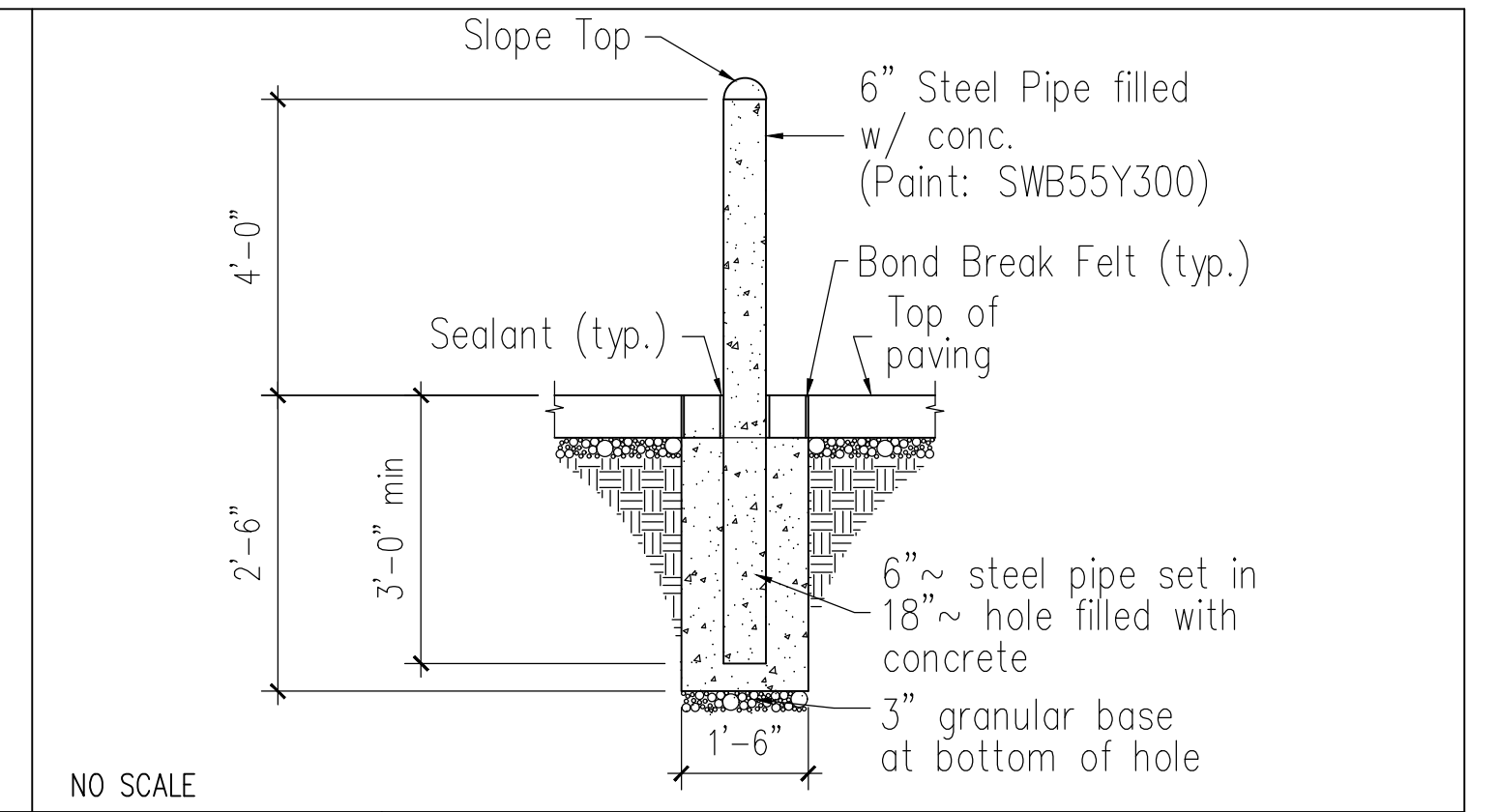
4 TYPICAL EXPANSION JOINT



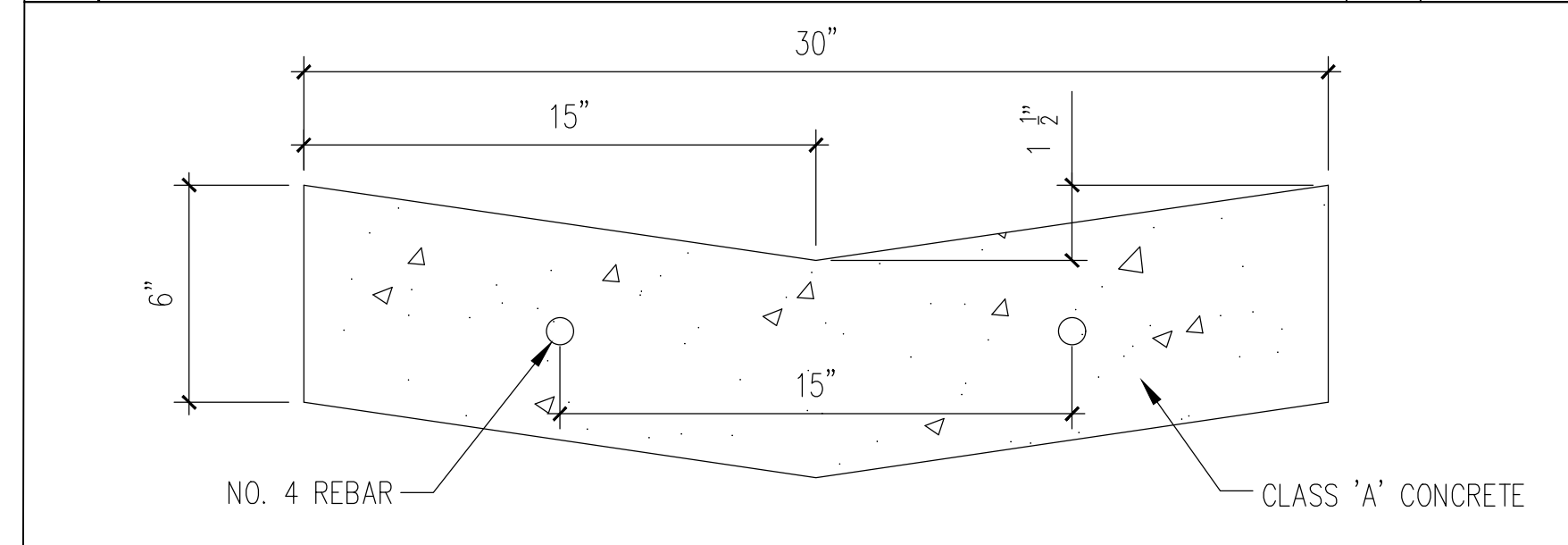
3 TYP. CONC. PAVING CONTROL JOINT



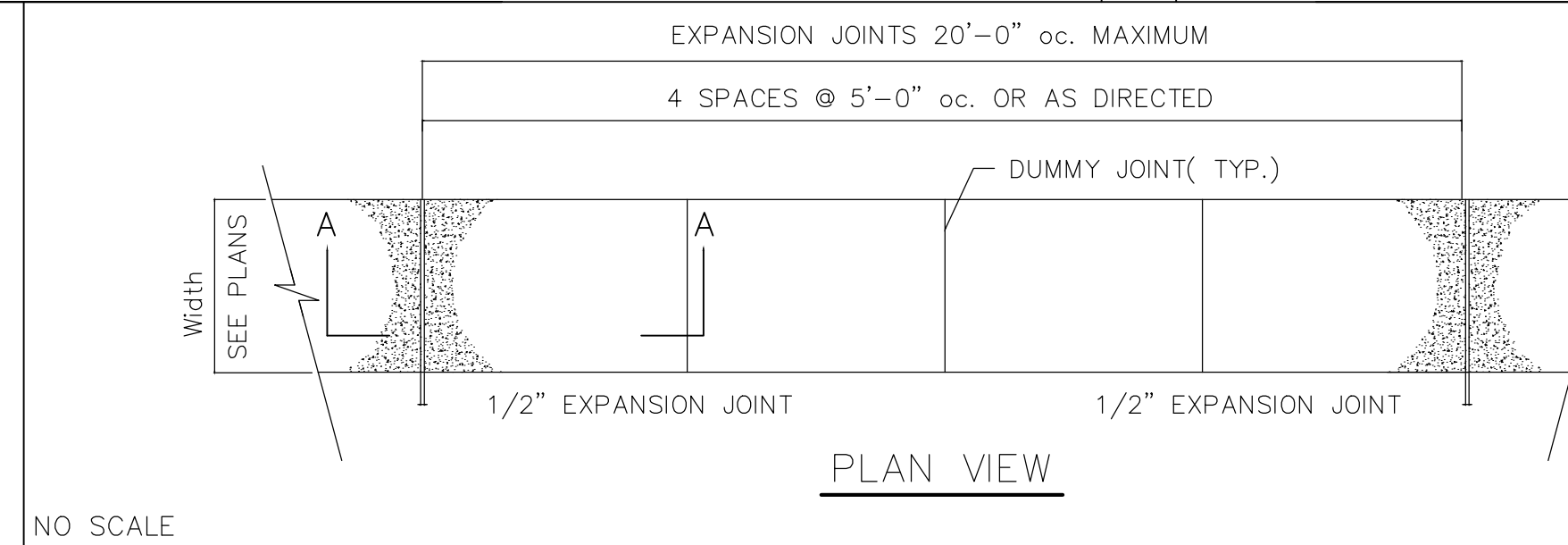
2 TYPICAL WALK SECTION



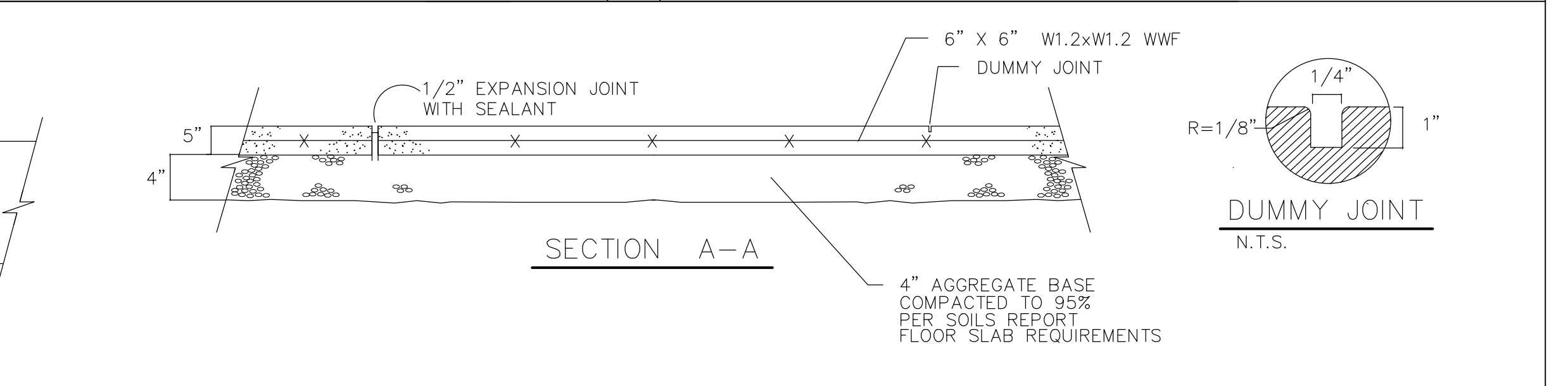
1 TYPICAL BOLLARD SECTION



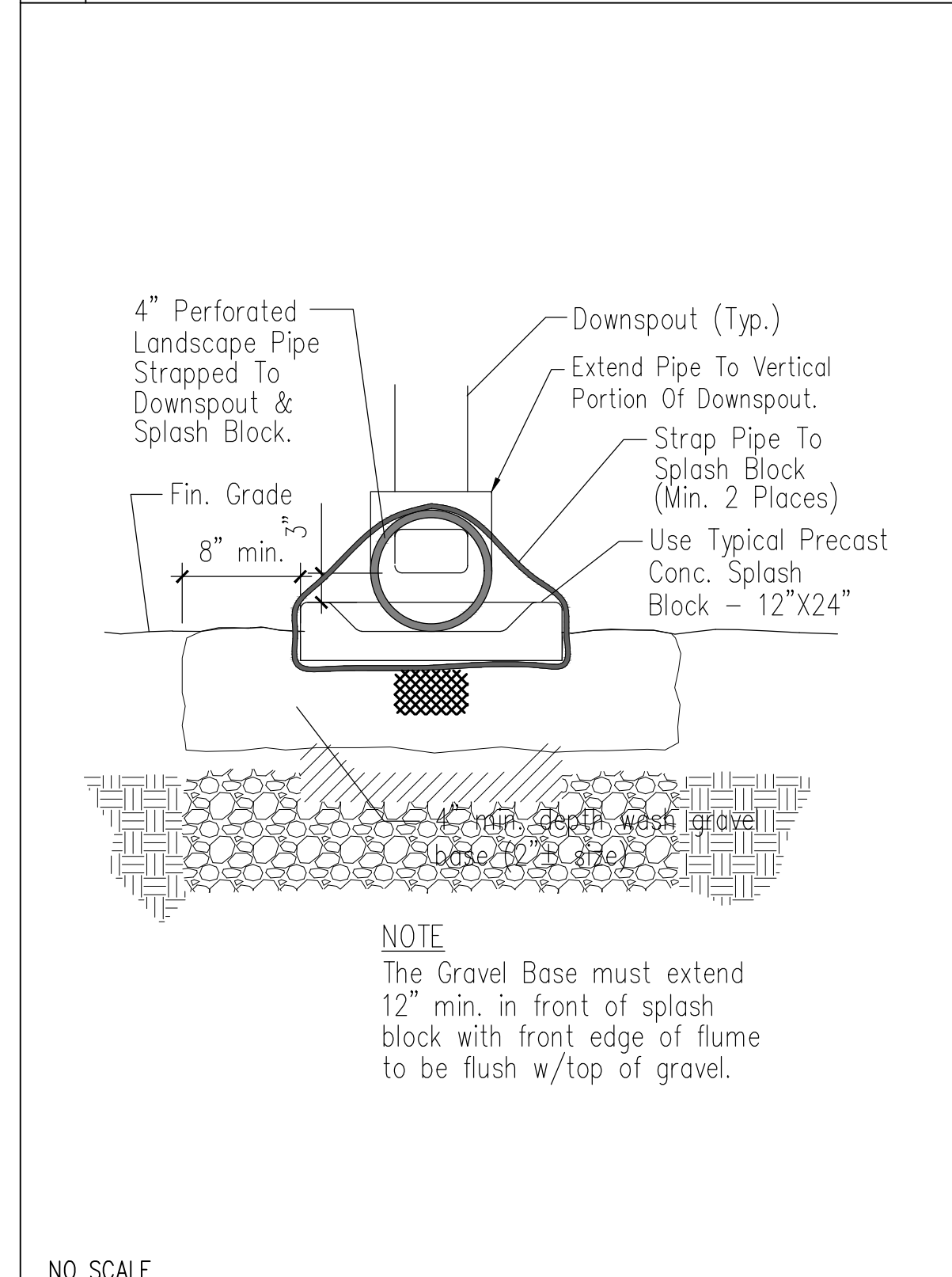
6 V-GUTTER



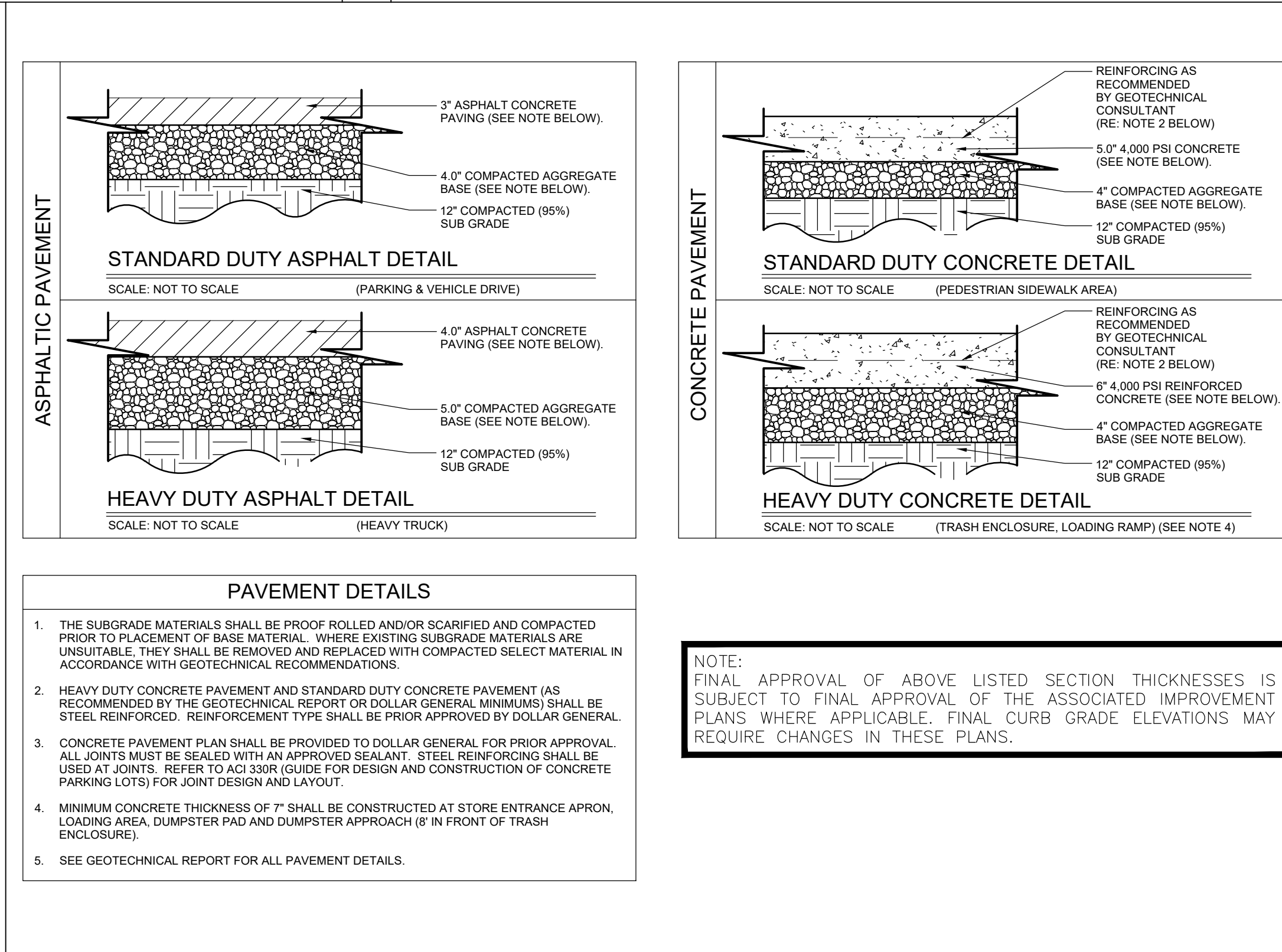
5 CONCRETE SIDEWALK



7 NOT USED



9 CONCRETE SPLASH BLOCK



8 PAVEMENT DETAILS

COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 9	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
BENCH MARK					
DESCRIPTION: BRASS CAP DISK					
LOCATION: SET IN ROCK OUTCROP					
RECORD FROM: NGS BENCHMARK NO. DC0012					
ELEVATION: 2594.92' DATUM: NAVD 88					
DATE: _____					
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER			ENGINEER OF WORK: GREGORY O. BLACK		
NAME: _____			R.C.E.: 53952 DATE: 6/21/2021		
DATE: _____			GRADING PERMIT NO: PDS2019-LDGRMJ-30250		

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Jun. 21, 2021
 PHONE NO. (661)330-2361 // EMAIL: goblack@palmeis.com

TYPICAL FINISHED GRADING
NO SCALE

NOTES:
1. ELEVATION "A" IS LOCATED AT THE MOST REMOTE CORNER OF THE LOT FROM THE DRAIN POINT. ELEVATION "B" SHALL EQUAL ELEVATION "A" PLUS 1% TIMES THE DISTANCE FROM THE PERIMETER OF THE LOT.
2. DRAINAGE LOOP SWALE SHALL HAVE 1% MINIMUM GRADIENT TOWARDS STREET OR OTHER DISCHARGE POINT.
3. ALL SLOPE SURFACES SHALL BE PROTECTED BY APPROVED EROSION CONTROL MATERIAL.

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO COUNTY DESIGN STANDARD / REVISION: [] APPROVED [] DATE []
LOT GRADING / DRAWING NUMBER: DS-08

GRADING OF SLOPES
NO SCALE

TABLE 2: SLOPE ROUNDING
H FEET | L FEET | R FEET
0-5 | 1'-0" | 2'-0"
5-10 | 1'-0" | 2'-0"
10-20 | 1'-0" | 2'-0"
20-30 | 1'-0" | 2'-0"
30-40 | 1'-0" | 2'-0"
40-50 | 1'-0" | 2'-0"

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO COUNTY DESIGN STANDARD / REVISION: [] APPROVED [] DATE []
GRADING OF SLOPES / DRAWING NUMBER: DS-10

REQUIRED SETBACKS
NO SCALE

H FEET	A	B	D
0-15	3'	5'	5'
15-30	3'	5'	5'
30-40	3'	5'	5'
40-50	3'	5'	5'

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO COUNTY DESIGN STANDARD / REVISION: [] APPROVED [] DATE []
REQUIRED SETBACKS / DRAWING NUMBER: DS-11

CATCH BASIN - TYPE F

NOTES:
1. SEE D-11A & B FOR ADDITIONAL NOTES AND DETAILS.
2. WHEN V EXCEEDS 4" STEPS SHALL BE INSTALLED. SEE D-11A FOR DETAILS.
3. EXPOSED EDGES OF CONCRETE SHALL BE ROUNDED WITH A RADIUS OF 1/2".
4. CONCRETE EDGES ON BOTH SIDES UNLESS OTHERWISE SHOWN ON PLANS.
5. MAINTAIN 1-1/2" CLEAR SPACING BETWEEN REINFORCING AND CONCRETE SURFACE.
6. INSTALL 1" STEEL PROTECTION BAR ACROSS OPENING.
7. DIAMETER "D" SHALL BE 1/2" MAX. FOR LARGER DIAMETER PIPES THIS DRAWING MUST BE MODIFIED. PIPE DIAMETERS TO BE SHOWN ON PLANS.
8. IF CONSTRUCTED AWAY FROM SIDEWALK THE SURFACE OF THE TOP SLAB OF THE CATCH BASIN SHALL MATCH THE SIDEWALK SURFACE AND FINISH.

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: D-07

WELDED STEEL GRATE FRAME

NOTE: NOT-UP GALVANIZE ALL PARTS AFTER FABRICATION.

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: D-13

DRAINAGE STRUCTURE GRATE

NOTE: NOT-UP GALVANIZE ALL PARTS AFTER FABRICATION.
2. DIMENSIONS ARE TO CENTERLINE OF BARS UNLESS OTHERWISE NOTED.
3. NOT TO BE USED IN PEDESTRIAN AREAS.
4. WEIGHT: 200 POUNDS +/-

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: D-15

CATCH BASIN - TYPE I

NOTES:
1. A TYPE I CATCH BASIN IS SPECIFIED FOR LARGE DIAMETER PIPES OR FOR HEAVY TRAFFIC LOADS (NOTES EXTRA STEEL REINFORCEMENT IN UPPER CORNERS).
2. SEE D-11A & B-11B FOR ADDITIONAL NOTES AND DETAILS.
3. WHEN V EXCEEDS 4" STEPS SHALL BE INSTALLED PER D-11A.

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: D-29

STRAIGHT HEADWALL - TYPE B (CIRCULAR PIPE)

NOTES:
1. CONCRETE SHALL BE 4000-PSI.
2. EXPOSED EDGES SHALL BE 3/4" CHAMFERED.

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: D-32

RIP RAP ENERGY DISSIPATER

TABLE 7-1 (MINIMUM) PER JULY 2005 SAN DIEGO COUNTY DRAINAGE DESIGN MANUAL

DESIGN VELOCITY (FT/SEC)	ROCK CLASS	THICKNESS (MIN)
6-10	NO. 2 BAKING	1.1 FT
10-12	1/4 TON	2.7 FT
12-14	1/2 TON	3.5 FT
14-16	1 TON	4.4 FT
16-18	2 TON	5.4 FT

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: D-40

DRAINAGE DITCHES

NOTES:
1. UNUSUAL SLOPE OF LINED DITCH SHALL BE 2% MINIMUM.
2. USE A 6" THICKNESS DITCH ON BOTH SIDES OF THE DRAINAGE DITCH WHEN THE DRAINAGE DITCH IS BUILT DOWN A GRADED SLOPE.

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: D-75

CURBS AND GUTTER - SEPARATE

NOTES:
1. CONCRETE SHALL BE 4000-PSI.
2. SEE STANDARD DRAWINGS G-3 AND G-10 FOR JOINT DETAILS.
3. SLOPE TOP OF CURB 2% MAX TOWARD GUTTER.

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: G-01

CURB AND GUTTER - COMBINED

NOTES:
1. CONCRETE SHALL BE 4000-PSI.
2. SEE STANDARD DRAWINGS G-3 AND G-10 FOR JOINT DETAILS.
3. SLOPE TOP OF CURB 2% MAX TOWARD GUTTER.

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: G-02

CONCRETE DRIVEWAY (ALLEY TYPE)

NOTES:
1. OR AS REQUIRED BY THE AGENCY.
2. = ELEVATION SHOWN ON PLANS (TOP OF CURB, AND GUTTER ELEVATION).
3. ALL CONCRETE SHALL BE 4000-PSI.
4. TRANSITION FROM FULL HEIGHT CURB TO NO CURB. 6FT TRANSITION FOR 5FT WIDE SIDEWALK AND 8FT TRANSITION FOR 6FT WIDE SIDEWALK.
5. PAVEMENT STRUCTURAL SECTION SHALL BE SHOWN ON PLANS.
6. SEE G-2 AND G-10 FOR CURB AND JOINT DETAILS.
7. BENCH MARK SHALL BE SHOWN ON PLANS.

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: G-14E

24" MANHOLE FRAME AND COVER LIGHT DUTY

NOTES:
1. Frame and cover shall be cast iron. Cast iron shall conform to ASTM A152 Class 30.
2. Frame and cover for use in non-traffic area only.
3. Frame and cover shall be 33 lbs. Cover 60 lbs. - 110 lbs.
4. Inverted frame and cover shall have the capacity of weight marked in compliance with listed regulations.

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: M-02

SEWER CLEANOUT

NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) CLEANOUTS TO BE INSTALLED AT THE END OF MAINS WHERE INDICATED ON THE PLANS
3) CLEANOUT PIPE TO BE SAME SIZE AND MATERIAL AS SEWER MAIN UP TO 8"
4) BACKFILL TO TOP OF 45' DIA. BENCH WITH 3/4" CRUSHED ROCK
5) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: SC-01

4" AND 6" SEWER CUT-IN WYE CONNECTIONS

NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) CONNECTIONS TO EXISTING SEWER MAINS TO BE MADE BY AGENCY PERSONNEL IN ACCORDANCE WITH SPECIFICATIONS UNLESS OTHERWISE NOTED ON PLANS
3) NO CASE SHALL CONNECTION BE MADE DIRECTLY ON TOP OF SEWER MAIN
4) NO MORE THAN ONE CUT IN WYE WILL BE ALLOWED FOR EACH LENGTH OF EXISTING VOP SEWER MAIN
5) FOR SEWER LATERAL INSTALLATION SEE SS-01 AND SS-02
6) FOR TRENCH BACKFILL SEE SS-02
7) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

REVISION: [] BY [] APPROVED [] DATE []
DRAWN BY: JMK / CHECKED BY: JMK / DESIGNED BY: JMK / DATE: 12/17/14
SAN DIEGO REGIONAL STANDARD DRAWING / RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE / DRAWING NUMBER: SS-04

COUNTY APPROVED CHANGES

DESCRIPTION: [] APPROVED BY: [] DATE: []

BENCH MARK

DESCRIPTION: BRASS CAP DISK

LOCATION: SET IN ROCK OUTCROP

RECORD FROM: NGS BENCHMARK NO. DC0012

ELEVATION: 2594.92' DATUM: NAVD 88

DATUM: []

PRIVATE CONTRACT

SHEET 10 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 18 SHEETS

PLAN FOR: DOLLAR GENERAL - CAMPO, CA. SAN DIEGO COUNTY STANDARD DETAILS

CALIFORNIA COORDINATE INDEX 166-1929

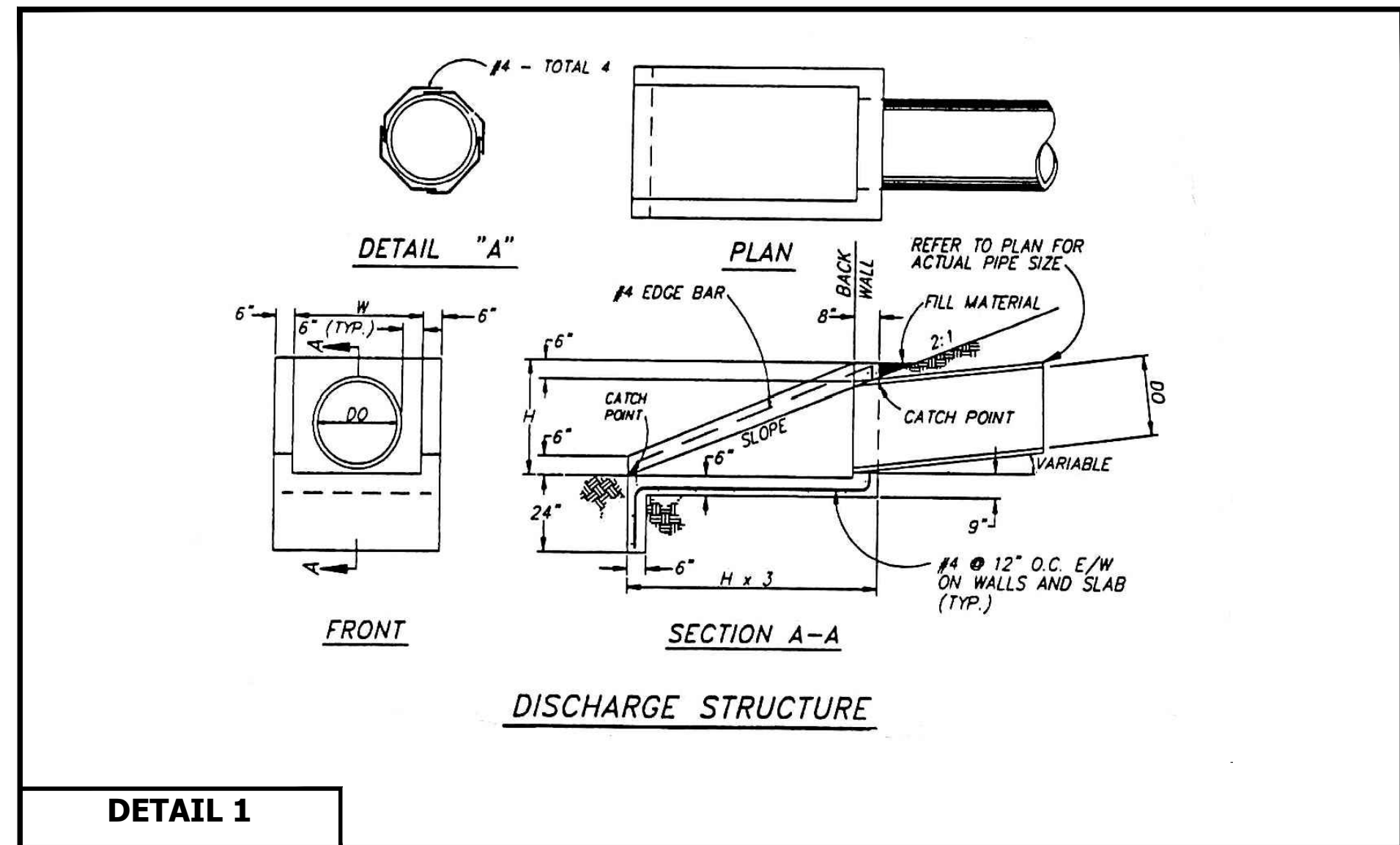
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER

ENGINEER OF WORK: GREGORY G. BLACK

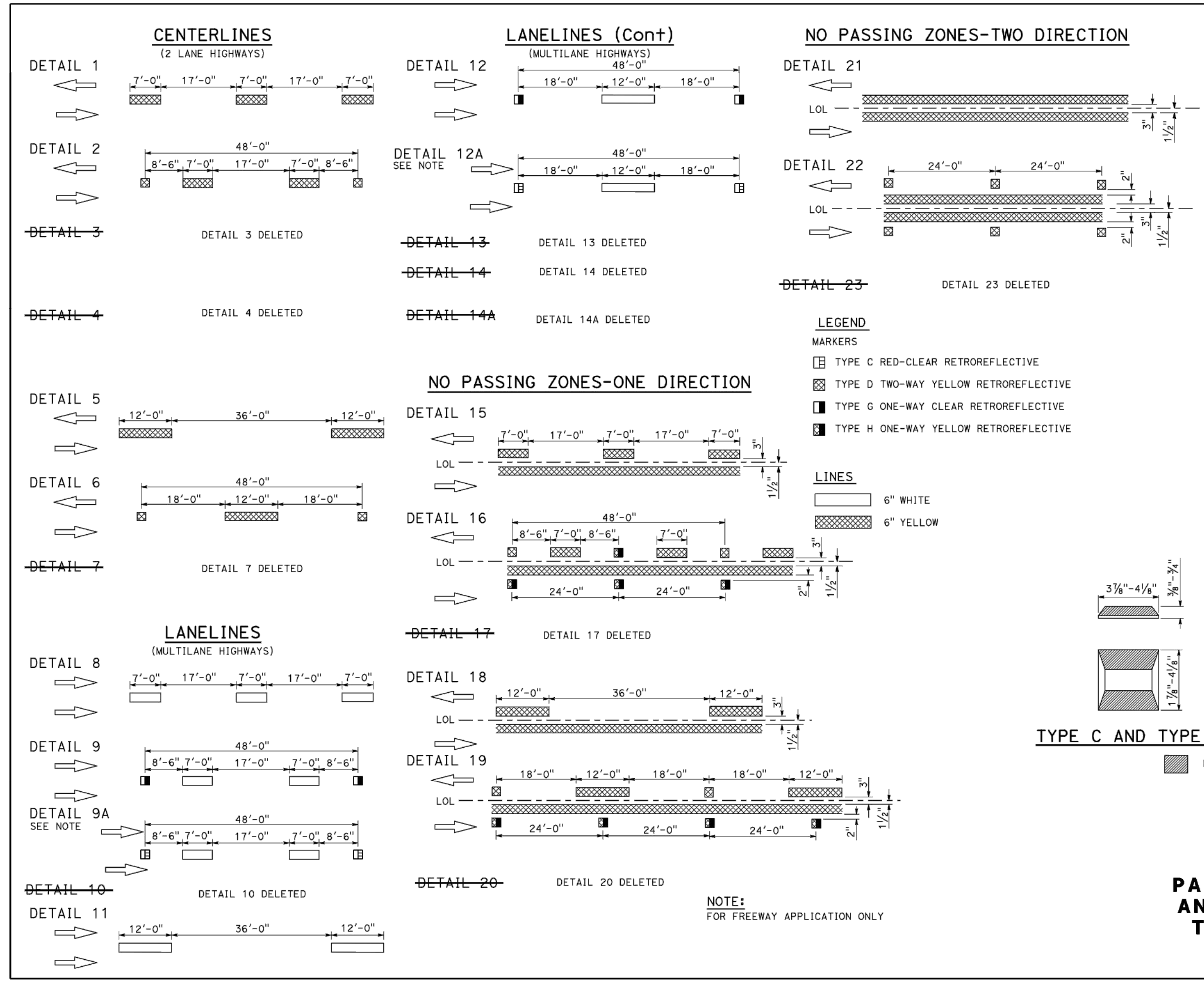
NAME: [] R.C.E.: 53952 DATE: 6/21/2021

GRADING PERMIT NO: PDS2019-LDRMJ-30250

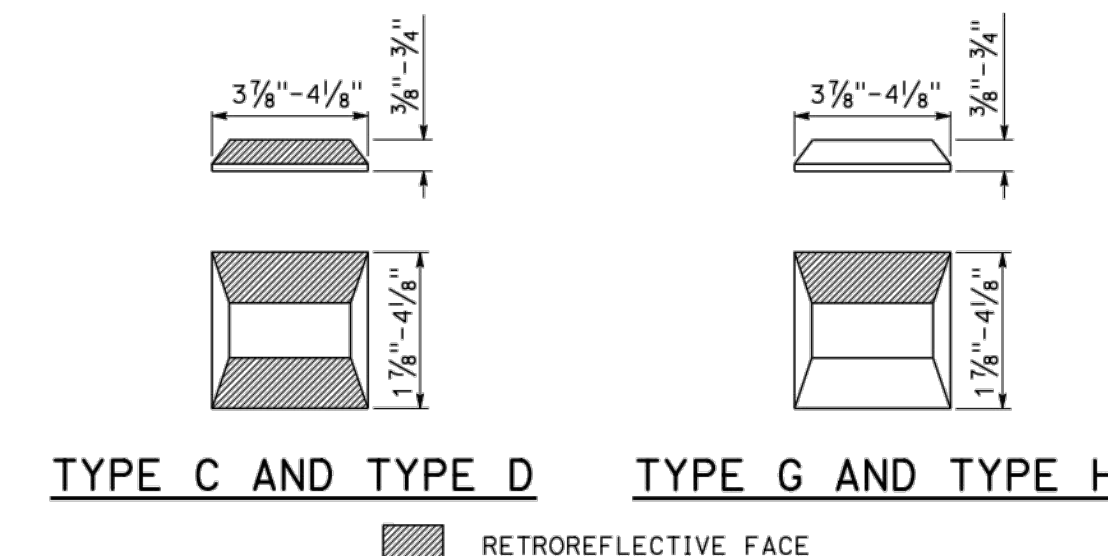
ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Jun. 21, 2021
PHONE NO. (661) 330-2361 // EMAIL: goblack@palmeis.com



DETAIL 1



NOTE:
FOR FREEWAY APPLICATION ONLY



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKERS
AND TRAFFIC LINES
TYPICAL DETAILS**

NO SCALE

A20A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Atifa Ferouzi
REGISTERED CIVIL ENGINEER
May 31, 2018
PLANS APPROVAL DATE

Atifa Ferouzi
C80402
3-31-19
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

2018 STANDARD PLAN A20A

COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 11	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
PLAN FOR: DOLLAR GENERAL - CAMPO, CA. MISCELLANEOUS STANDARD DETAILS					
CALIFORNIA COORDINATE INDEX 166-1929					
APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER			ENGINEER OF WORK: GREGORY O. BLACK		
DESCRIPTION: BRASS CAP DISK					
LOCATION: SET IN ROCK OUTCROP					
RECORD FROM: NGS BENCHMARK NO. DC0012					
ELEVATION: 2594.92' DATUM: NAVD 88					
DATE:					
GRADING PERMIT NO: PDS2019-LDGRMJ-30250					

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Jun. 21, 2021
PHONE NO. (661)330-2361 // EMAIL: goblack@palmis.com

ALTA/NSPS LAND TITLE SURVEY

TITLE - LEGAL DESCRIPTION

STEWART TITLE COMPANY
TITLE OFFICER: FRANK GREEN

ORDER NO. : 18030481622
DATED AS OF NOVEMBER 13, 2016 AT 7:30 A.M.

THE LAND REFERRED TO HEREIN IS SITUATED IN THE STATE OF CALIFORNIA, COUNTY OF SAN DIEGO UNINCORPORATED AND DESCRIBED AS FOLLOWS:

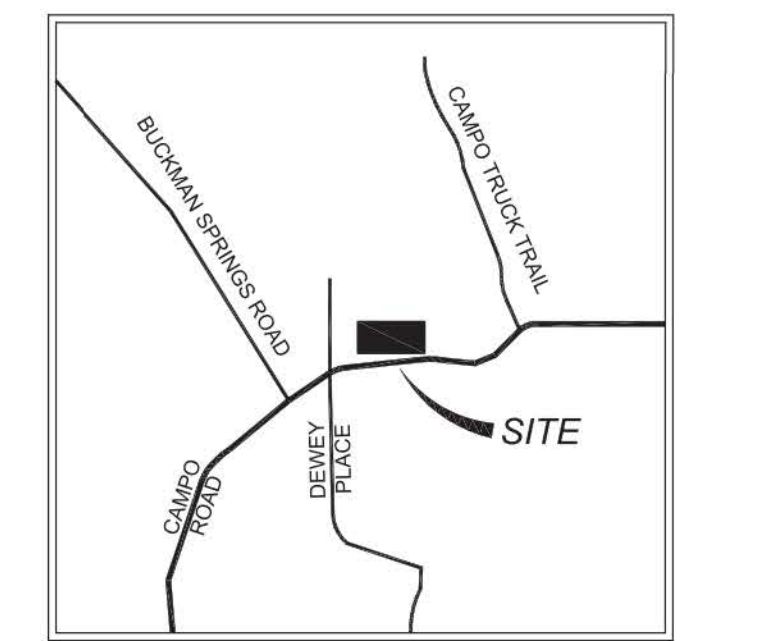
THAT PORTION OF THE EAST THREE-QUARTERS OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 18 SOUTH, RANGE 5 EAST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF, LYING NORTHERLY OF THE NORTHERLY LINE OF THE 40 FOOT CALIFORNIA STATE HIGHWAY, AS SHOWN ON MAP OF COUNTY HIGHWAY COMMISSION ROUTE 16, DIVISION NO. 5, ON FILE IN THE OFFICE OF THE COUNTY ENGINEER OF SAN DIEGO COUNTY, AND LYING WESTERLY OF A LINE DESCRIBED AS COMMENCING AT THE NORTHEASTERLY CORNER OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER, THENCE WESTERLY ALONG THE NORTHERLY LINE OF SAID NORTH WEST QUARTER, 500 FEET TO THE POINT OF BEGINNING, THENCE SOUTHERLY ALONG A LINE PARALLEL WITH THE EASTERLY LINE OF SAID NORTHWEST QUARTER TO A POINT ON THE NORTHERLY LINE OF SAID 40 FOOT CALIFORNIA STATE HIGHWAY.

EXCEPTING THEREFROM THAT PORTION DESCRIBED AS FOLLOWS:

BEGINNING AT THE POINT OF INTERSECTION OF THE EASTERLY LINE OF THE WESTERLY QUARTER OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 10, WITH THE NORTHERLY LINE OF THE CALIFORNIA STATE HIGHWAY 40 FEET IN WIDTH, AS SAID HIGHWAY IS DESCRIBED IN DEED TO THE COUNTY OF SAN DIEGO RECORDED JUNE 13, 1913 AS DOCUMENT NO. 17756 IN BOOK 505, PAGE 190 OF DEEDS, AS SHOWN ON MAP OF COUNTY HIGHWAY COMMISSION ROUTE 16, DIVISION NO. 5 ON FILE IN THE OFFICE OF THE COUNTY SURVEYOR OF SAID COUNTY; THENCE NORTH 84°11' EAST ALONG THE NORTHERLY LINE OF SAID HIGHWAY A DISTANCE OF 100 FEET; THENCE NORTH 1°19' EAST PARALLEL WITH THE EASTERLY LINE OF THE WESTERLY QUARTER OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 10, A DISTANCE OF 133.24 FEET; THENCE SOUTH 2°15' WEST 127.94 FEET TO A POINT IN THE EASTERLY LINE OF THE WESTERLY QUARTER OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER, THENCE SOUTH 1°19' EAST ALONG SAID EASTERLY LINE 65.04 FEET TO THE POINT OF BEGINNING.

APN: 655-120-09-00

VICINITY MAP



PARCEL INFORMATION

OWNER: GREGORY E. PARSONS AND SUZANNE C. PARSONS, HUSBAND AND WIFE AS JOINT TENANTS

APN: 655-120-09-00

ZONING: PARCEL INFORMATION PER SAN DIEGO COUNTY ZONING GIS

THE PARCEL IS CURRENTLY ZONED: GENERAL COMMERCIAL (C36)

NOTES

- BASIS OF BEARINGS: THE NORTH LINE OF THE NORTHWEST QUARTER THE NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 18 SOUTH, RANGE 5 EAST, PER RECORD OF SURVEY NO. 3636, FILED MAY 31, 1955, AS FILE NO. 70559, SAN DIEGO COUNTY RECORDS.
TAKEN TO BEAR: SOUTH 89°04' EAST
- BASIS OF ELEVATIONS: NGS BENCHMARK NO. DC0012, BRASS CAP DISK SET IN ROCK OUTCROP
ELEVATION = 2594.92' NAVD 88.
- SITE BENCHMARKS:
BASE CONTROL POINT NUMBER 1.
HUB AND TACK SET SOUTHEAST OF POWER POLE.
ELEVATION = 2657.18', AS SHOWN ON SHEET 2.
- THIS SURVEY IS VALID ONLY IF THE DRAWING INCLUDES THE SEAL AND SIGNATURE OF THE SURVEYOR.
- CERTIFICATION IS MADE TO THE ORIGINAL PURCHASER OF THE SURVEY, IT IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.
- SUBSURFACE AND ENVIRONMENTAL CONCERNS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY.
- THE LOCATIONS OF UNDER GROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED TO THE SURVEYOR. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. NO EXCAVATIONS WERE MADE DURING THE PROCESS OF THIS SURVEY TO LOCATE UNDERGROUND UTILITIES/STRUCTURES. DEPTHS UNKNOWN.
- EVERY DOCUMENT OF RECORD REVIEWED AND CONSIDERED AS A PART OF THIS SURVEY IS NOTED HEREON. ONLY THE DOCUMENTS NOTED HEREON WERE SUPPLIED TO THE SURVEYOR. THERE MAY EXIST OTHER DOCUMENTS OF RECORD WHICH WOULD AFFECT THIS PARCEL.
- SUBJECT PROPERTY IS LOCATED WITHIN AN UNINCORPORATED AREA, AS DETERMINED BY THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP FOR SAN DIEGO COUNTY, CALIFORNIA.
MAP NUMBER: 06073C2050F
EFFECTIVE DATE: 05/06/2012
- DURING THE COURSE OF THE FIELD SURVEY THERE WAS NO OBSERVABLE EVIDENCE OF EARTH MOVING WORK.
- DURING THE COURSE OF THE FIELD SURVEY THERE WAS NO OBSERVABLE EVIDENCE OF BUILDING CONSTRUCTION OR BUILDING ADDITIONS WITHIN RECENT MONTHS.
- DURING THE COURSE OF THE ALTA SURVEY THERE HAVE BEEN NO CHANGES IN THE STREET RIGHT OF WAY LINES. NO CHANGES TO STREET RIGHT OF WAY WERE MADE AWARE TO THE SURVEYOR.
- DURING THE COURSE OF THE FIELD SURVEY THERE WAS NO OBSERVABLE EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.
- DURING THE COURSE OF THE FIELD SURVEY THERE WAS NO OBSERVABLE EVIDENCE OF A WETLANDS FIELD DELINEATION.
- PROFESSIONAL LIABILITY INSURANCE POLICY IN THE MINIMUM AMOUNT OF \$1,000,000 TO BE IN EFFECT THROUGHOUT THE CONTRACT TERM.

TITLE REPORT NOTES

RESULT

- | | |
|---|--|
| 1. WATER RIGHTS, CLAIMS OR TITLE TO WATER IN OR UNDER SAID LAND, WHETHER OR NOT SHOWN BY THE PUBLIC RECORDS. | NONE MADE AWARE SURVEYOR |
| 2. RESERVATIONS CONTAINED IN THE PATENT FROM: THE UNITED STATES OF AMERICA TO: MICHAEL HELT RECORDED: APRIL 14, 1910 IN BOOK 11 PAGE 357. OF PATENTS WHICH AMONG OTHER THINGS RECITES AS FOLLOWS:
A) THE RIGHT TO PROSPECT FOR, MINE AND REMOVE ALL OIL, GAS AND OTHER MINERAL DEPOSITS.
B) A RIGHT OR WAY THEREON FOR DITCHES OR CANALS CONSTRUCTED BY THE AUTHORITY OF THE UNITED STATES.
C) ANY VESTED AND ACCRUED WATER RIGHTS FOR MINING, AGRICULTURAL, MANUFACTURING OR OTHER PURPOSES AND RIGHTS TO DITCHES AND RESERVOIRS USED IN CONNECTION WITH SUCH WATER RIGHTS AS MANY BE RECOGNIZED AND ACKNOWLEDGED BY LOCAL CUSTOMS, LAWS AND DECISIONS OF COURTS. | DOES AFFECT |
| 3. AN EASEMENT FOR PUBLIC UTILITIES, APPURTENANCES, INGRESS, EGRESS AND RIGHTS INCIDENTAL THERETO IN FAVOR OF THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY AS SET FORTH IN A DOCUMENT RECORDED JULY 20, 1917 IN BOOK 526 PAGE 445 OF DEEDS, AFFECTS A PORTION OF THE HEREIN DESCRIBED LAND.
A PORTION OF SAID EASEMENT WAS RELEASED BY A QUITCLAIM DEED RECORDED JUNE 1, 1978 AS FILE NO. 78-225706 OF OFFICIAL RECORDS. | DOES AFFECT BLANKET FOR AREA "PARALLEL WITH AND WITHIN 500 FEET OF TELEPHONE COMPANY POLE LINES" |
| 4. THE EFFECT, IF ANY, OF RECORD OF SURVEY MAP NO. 3636 WHICH SETS FORTH, OR PURPORTS TO SET FORTH CERTAIN DIMENSIONS AND BEARINGS OF THE HEREIN DESCRIBED PROPERTY. | DOES AFFECT |
| 5. AN EASEMENT FOR PUBLIC UTILITIES, APPURTENANCES, INGRESS, EGRESS AND RIGHTS INCIDENTAL THERETO IN FAVOR OF THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY AS SET FORTH IN A DOCUMENT RECORDED AUGUST 25, 1965 AS FILE NO. 154953 OF OFFICIAL RECORDS, AFFECTS A PORTION OF THE HEREIN DESCRIBED LAND. | DOES AFFECT AS SHOWN HEREON |
| 6. AN IRREVOCABLE OFFER TO DEDICATE REAL PROPERTY RECORDED APRIL 10, 1972 AS FILE NO. 87639 OF OFFICIAL RECORDS, WHEREIN A PORTION OF SAID LAND WAS OFFERED FOR DEDICATION TO PUBLIC USE FOR PUBLIC HIGHWAY PURPOSES, WHICH AFFECTS SAID LAND. | DOES AFFECT AS SHOWN HEREON |
| 7. PLEASE BE ADVISED THAT OUR SEARCH DID NOT DISCLOSE ANY OPEN DEEDS OF TRUST OF RECORD, IF YOU SHOULD HAVE KNOWLEDGE OF ANY OUTSTANDING OBLIGATION, PLEASE CONTACT YOUR TITLE OFFICER IMMEDIATELY FOR FURTHER REVIEW. | NONE MADE AWARE SURVEYOR |
| 8. MATTERS WHICH MAY BE DISCLOSED BY AN INSPECTION OR BY A SURVEY OF SAID LAND SATISFACTORY TO THIS COMPANY OR BY INQUIRY OF THE PARTIES IN POSSESSION THEREOF. | ALTA SURVEY AS SHOWN HEREON |
| 9. WE WILL REQUIRE A STATEMENT OF INFORMATION FROM THE PARTIES NAMED BELOW IN ORDER TO COMPLETE THIS REPORT, BASED ON THE EFFECT OF DOCUMENTS, PROCEEDINGS, LIENS, DECREES, OR OTHER MATTER WHICH DO NOT SPECIFICALLY DESCRIBE SAID LAND, BUT WHICH, IF ANY DO EXIST, MAY AFFECT THE TITLE OR IMPOSE LIENS OR ENCUMBRANCES THEREON. | NOT SURVEY RELATED |

SURVEYOR'S STATEMENT

TO: NNN RETAIL DEVELOPMENT, LLC
CHICAGO TITLE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2-4, 5, 6(A), 7(A), 8, 9, 11, 13, 14, 16, 17 & 20 OF TABLE A THEREOF.

THE FIELD WORK WAS COMPLETED ON 12/18/2018

DATE OF PLAT OR MAP 08/28/2019

ME R
NEIL ELLIOTT THONSEN, PLS 8656

08/28/19
DATE

IN ACCORDANCE WITH SECTION 8770.6 OF THE BUSINESS AND PROFESSIONS CODE, STATE OF CALIFORNIA (PROFESSIONAL LAND SURVEYOR'S ACT, AS AMENDED JANUARY 1, 2006), THE USE OF THE WORD "CERTIFY" OR "CERTIFICATION" BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER IN THE PRACTICE OF PROFESSIONAL ENGINEERING OF LAND SURVEYING OR THE PREPARATION OF MAPS, PLATS, REPORTS, DESCRIPTIONS, OR OTHER SURVEYING DOCUMENTS ONLY CONSTITUTES AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS WHICH ARE THE SUBJECT OF THE CERTIFICATION, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.

PREPARED BY:

BASE
CONSULTING GROUP, INC.
1645 E. MANNING AVE.
REDFIELD, CA 95544
PH: (530) 637-1544

ALTANSPS LAND TITLE SURVEY
PREPARED FOR:

CAMPO, CA
SECTION 10, T.18S., R.5E., S.B.M.

PROJECT INFO:

PROJECT NO.	18110
DRAWN BY:	NET
CHECKED BY:	NET
DATE:	08/28/2019

REVISIONS:

NO.	DATE	DESC.
12/21/2018	12/21/2018	ORIGINAL ISSUE
08/28/2019	08/28/2019	REVISION



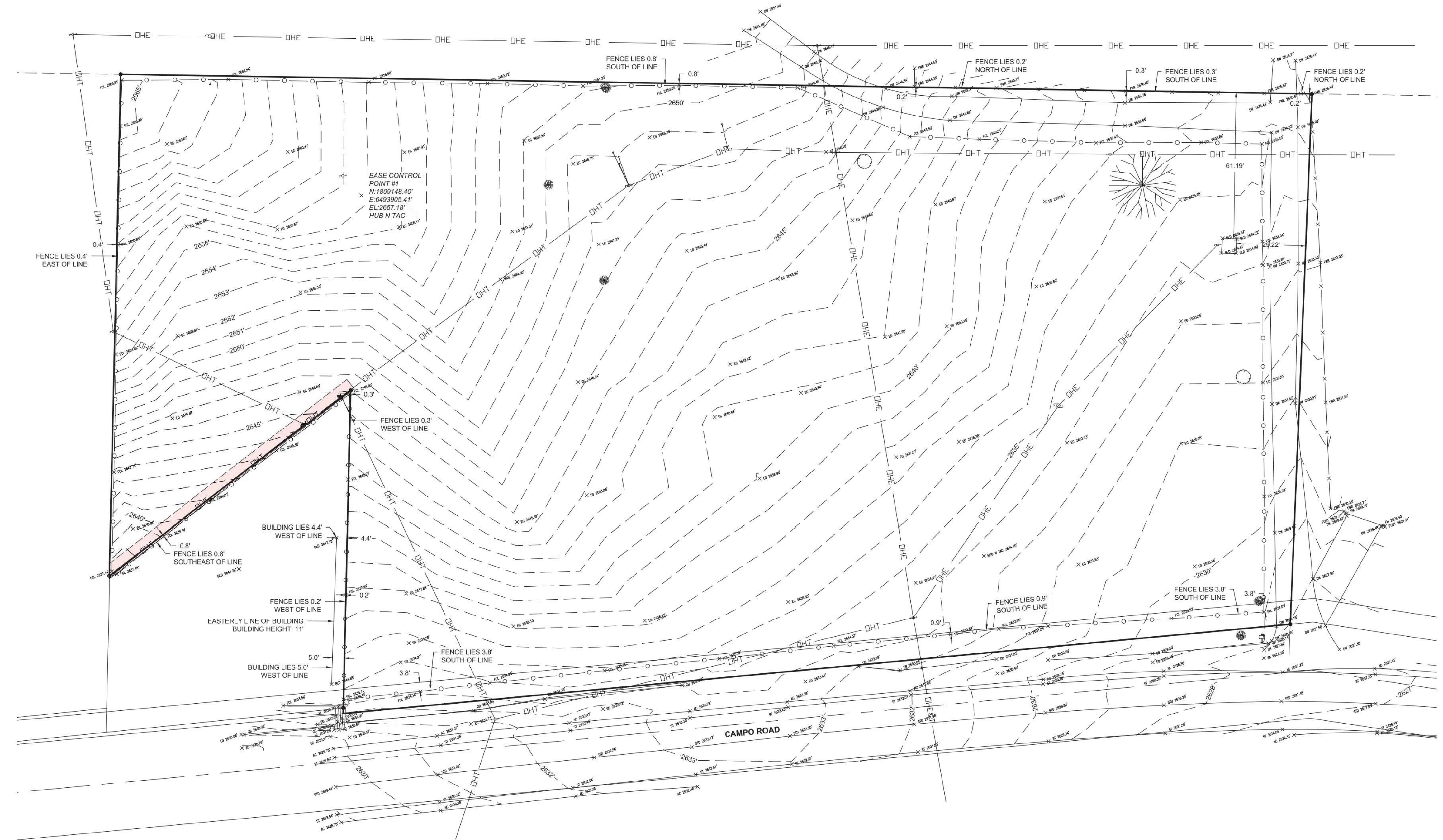
08/28/19

COVER SHEET

1 of 3

COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 14	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
BENCH MARK			PLAN FOR:		
DESCRIPTION: BRASS CAP DISK			DOLLAR GENERAL - CAMPO, CA. ALTA/NSPS LAND TITLE SURVEY		
LOCATION: SET IN ROCK OUTCROP			CALIFORNIA COORDINATE INDEX 166-1929		
RECORD FROM: NGS BENCHMARK NO. DC0012			APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER		
ELEVATION: 2594.92' DATUM: NAVD 88			ENGINEER OF WORK:		
DATUM:			NAME: _____ R.C.E.: _____ DATE: _____		
			GRADING PERMIT NO: PDS2019-LDGRMJ-30250		

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Jun. 21, 2021
PHONE NO. (661)330-2361 // EMAIL: gblack@palmeis.com



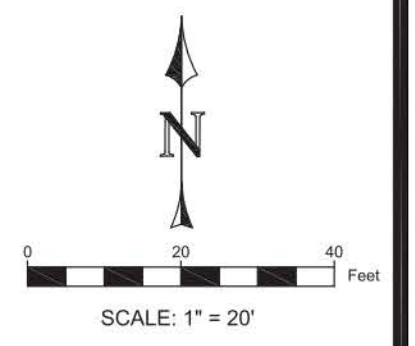
LEGEND

BUSH	GUY WIRE	WOOD FENCE	DHE&T	ELECTRIC AND TELEPHONE LINE - OVERHEAD
CONTROL - BRASS CAP	MAIL BOX	CHAIN LINK FENCE	UGE	ELECTRIC LINE - UNDERGROUND
CONTROL - IRON PIPE	POWER - POLE	WIRE FENCE	W	WATER LINE
CONTROL - REBAR FOUND	TELEPHONE - RISER	UGT	SS	SEWER LINE
	TREE - DECIDUOUS	DHT	ST	STORM LINE
		DHE	UGU	UNKNOWN UTILITY LINE

AC	ASPHALT CONCRETE	DW	DRIVEWAY	FW	FENCE - WIRE	FF	FINISHED FLOOR	OHE	OVERHEAD ELECTRICAL LINE	STD	STRIPING - DOUBLE
ACD	ASPHALT CURB	EG	EXISTING GRADE	FWD	FENCE - WOOD	FFD	FINISHED FLOOR DOUBLE	OHT	OVERHEAD TELEPHONE LINE	SW	SIDEWALK
BLD	BUILDING LINE	EP	EDGE OF PAVEMENT	GB	GRADE BREAK	FF	FINISHED FLOOR	SS	SANITARY SEWER	TBC	TOP BACK OF CURB
CNC	CONCRETE	FL	FLOW LINE	GUT	GUTTER	FFD	FINISHED FLOOR DOUBLE	ST	STRIPING	UGE	UNDERGROUND ELECTRIC LINE
CR	CROWN OF ROAD	FM	FENCE - METAL	IE	INVERT ELEVATION	LIP	LIP OF CURB	STB	STRIPING - BROKEN	UGG	UNDERGROUND GAS LINE
										UGW	UNDERGROUND WATER LINE

PREPARED BY:
BASE
 CONSULTING GROUP, INC.
 16453 E. MANNING AVE.
 REDDLEY, CA 92454
 PH (959) 637-1544

ALTA/NSPS LAND TITLE SURVEY
 PREPARED FOR:
 CAMPO, CA
 SECTION 10, T.18S., R.5E., S.B.M.

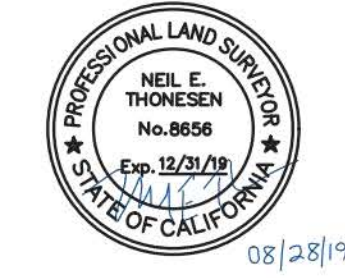


PROJECT INFO:

PROJECT NO.	18110
DRAWN BY:	NET
CHECKED BY:	NET
DATE:	08/28/2019

REVISIONS:

NO.	DATE	DESC.
12/21/2018		ORIGINAL ISSUE
08/28/2019		REVISION



TOPO SHEET

2 of 3

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

BENCH MARK

DESCRIPTION: BRASS CAP DISK

LOCATION: SET IN ROCK OUTCROP

RECORD FROM: NGS BENCHMARK NO. DC0012

ELEVATION: 2594.92' DATUM: NAVD 88

DATUM:

PRIVATE CONTRACT

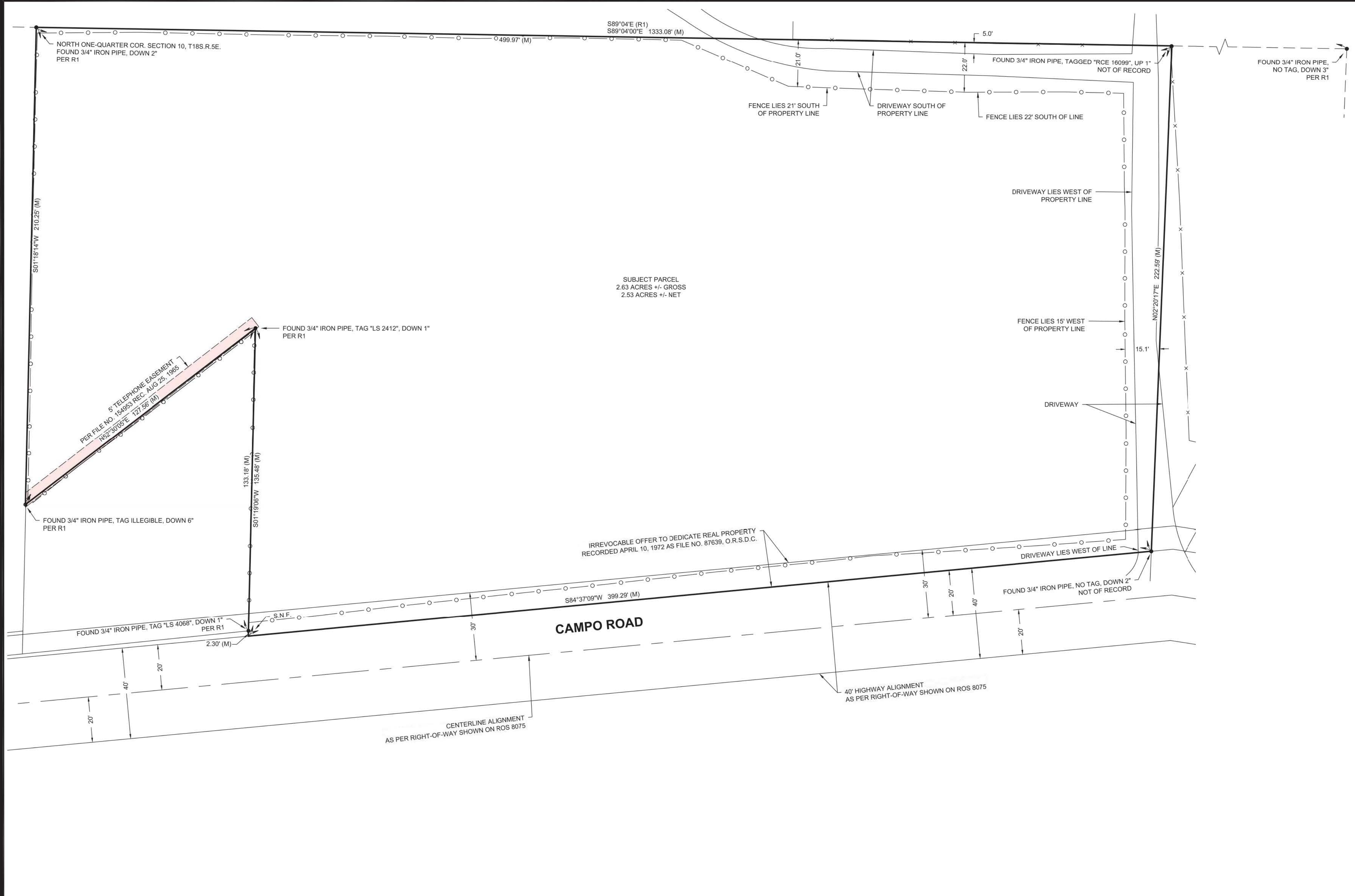
SHEET 15	COUNTY OF SAN DIEGO	18 SHEETS
DEPARTMENT OF PUBLIC WORKS		

PLAN FOR:
 DOLLAR GENERAL - CAMPO, CA.
 ALTA/NSPS TOPO SHEET

CALIFORNIA COORDINATE INDEX 166-1929

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER	ENGINEER OF WORK:
NAME:	R.C.E.:
DATE:	DATE:
GRADING PERMIT NO: PDS2019-LDGRMJ-30250	

ENGINEER'S NAME: GREG BLACK, RCE 53552 DATE: Jun. 21, 2021
 PHONE NO. (661)330-2361 // EMAIL: gblack@palmeis.com



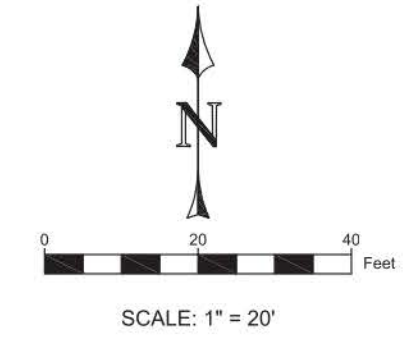
- LEGEND**
- FOUND AND ACCEPTED MONUMENT AS NOTED
 - (M) MEASURED
 - S.N.F. SEARCHED NOTHING FOUND
 - O.R.S.D.C. OFFICIAL RECORDS OF SAN DIEGO COUNTY
 - (R1) RECORD AND CALCULATED DIMENSIONS PER RECORD OF SURVEY NO. 3636, FILED MAY 31, 1955, AS FILE NO. 70559, SAN DIEGO COUNTY RECORDS.

NOTE:
ADDITIONAL ENCROACHMENTS SHOWN ON TOPO SHEET 2

PREPARED BY:
BASE
CONSULTING GROUP, INC.
16453 E. MANNING AVE.
REVERLY, CA 93054
PH: (509) 837-1544

ALTANSPS LAND TITLE SURVEY
PREPARED FOR:

CAMPO, CA
SECTION 10, T.18S., R.5E., S.B.M.



PROJECT INFO:

PROJECT NO.	18110
DRAWN BY:	NET
CHECKED BY:	NET
DATE:	08/28/2019

REVISIONS:

NO.	DATE	DESC.
12/21/2018		ORIGINAL ISSUE
08/28/2019		REVISION



BOUNDARY SHEET

3 of 3

COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:
BENCH MARK		
DESCRIPTION:	BRASS CAP DISK	
LOCATION:	SET IN ROCK OUTCROP	
RECORD FROM:	NGS BENCHMARK NO. DC0012	
ELEVATION:	2594.92'	DATUM: NAVD 88
		DATUM:

PRIVATE CONTRACT		
SHEET 16	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
PLAN FOR: DOLLAR GENERAL - CAMPO, CA. ALTA/NSPS BOUNDARY SHEET		
CALIFORNIA COORDINATE INDEX		166-1929
APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER	ENGINEER OF WORK:	
	NAME:	R.C.E.:
		DATE:
		GRADING PERMIT NO.: PDS2019-LDGRMJ-30250

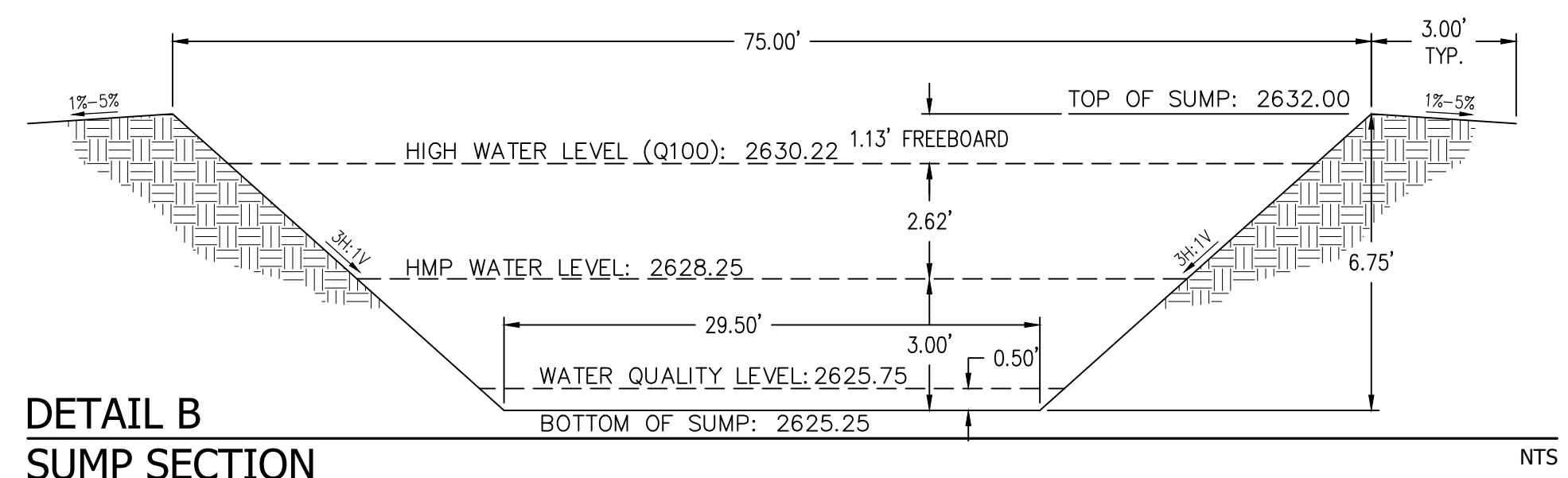
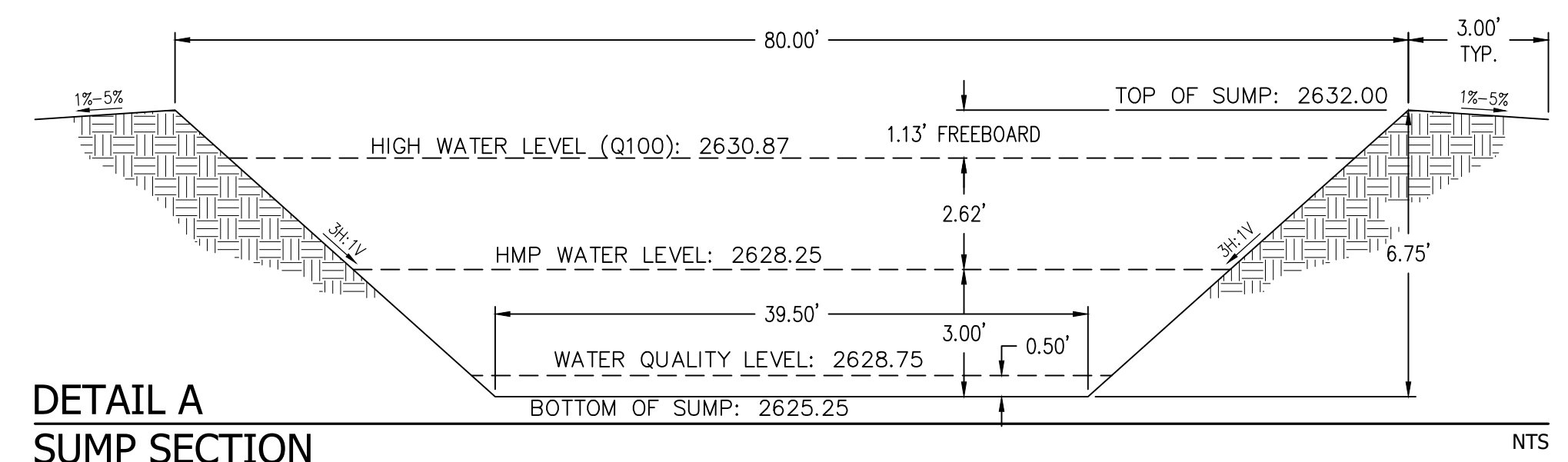
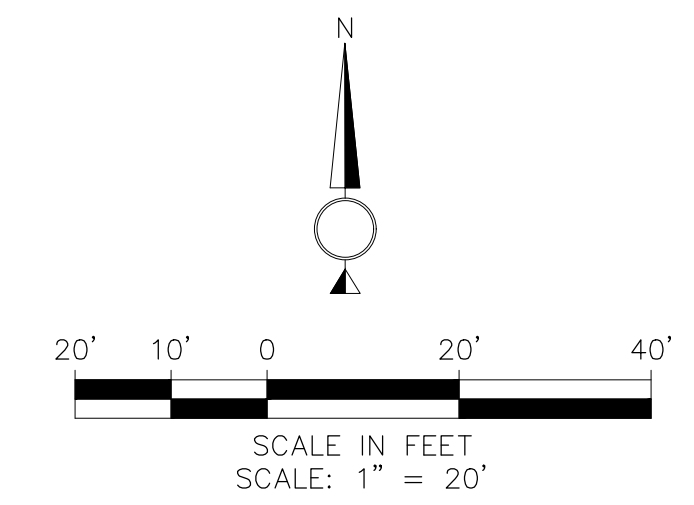
ENGINEER'S NAME: GREG BLACK, RCE 53552 DATE: Jun. 21, 2021
PHONE NO. (661)330-2361 // EMAIL: gblack@palmeis.com



- LEGEND**
- DMA BOUNDARY(IES)
 - ////// STRUCTURE - INFILTRATION BASIN/SUMP
 - - - - TERRACE DITCH (TYPE C)
 - SURFACE FLOW
 - PROPOSED STORM DRAIN LINE
 - PROPOSED CONCRETE AREA (IMPERVIOUS)
 - ▒ PROPOSED STANDARD DUTY AC (IMPERVIOUS)
 - ▓ PROPOSED HEAVY DUTY AC (IMPERVIOUS)
 - ① PROPOSED CATCH BASIN/DRAINAGE INLET/ RISER
 - ② PROPOSED MANHOLE/JUNCTION BOX
 - ③ PROPOSED SLOTTED DRAIN
 - ④ PROPOSED STORM DRAIN LINE
 - ⑤ PROPOSED OUTLET STRUCTURE
 - ⑥ PROPOSED OVERFLOW DISCHARGE STRUCTURE
 - ⑦ PROPOSED SEPTIC SYSTEM
 - ⑧ PROPOSED ROOF DOWNSPOUT LOCATIONS

- EXISTING SITE FEATURES**
- HYDROLOGIC SOIL GROUP: A
 - APPROXIMATE DEPTH TO GROUND WATER: GREATER THAN 50FT
 - NATURAL HYDROLOGIC FEATURES: NONE
 - EXISTING DRAINAGE NETWORK, DIRECTIONS, OFF SITE CONNECTIONS: NONE

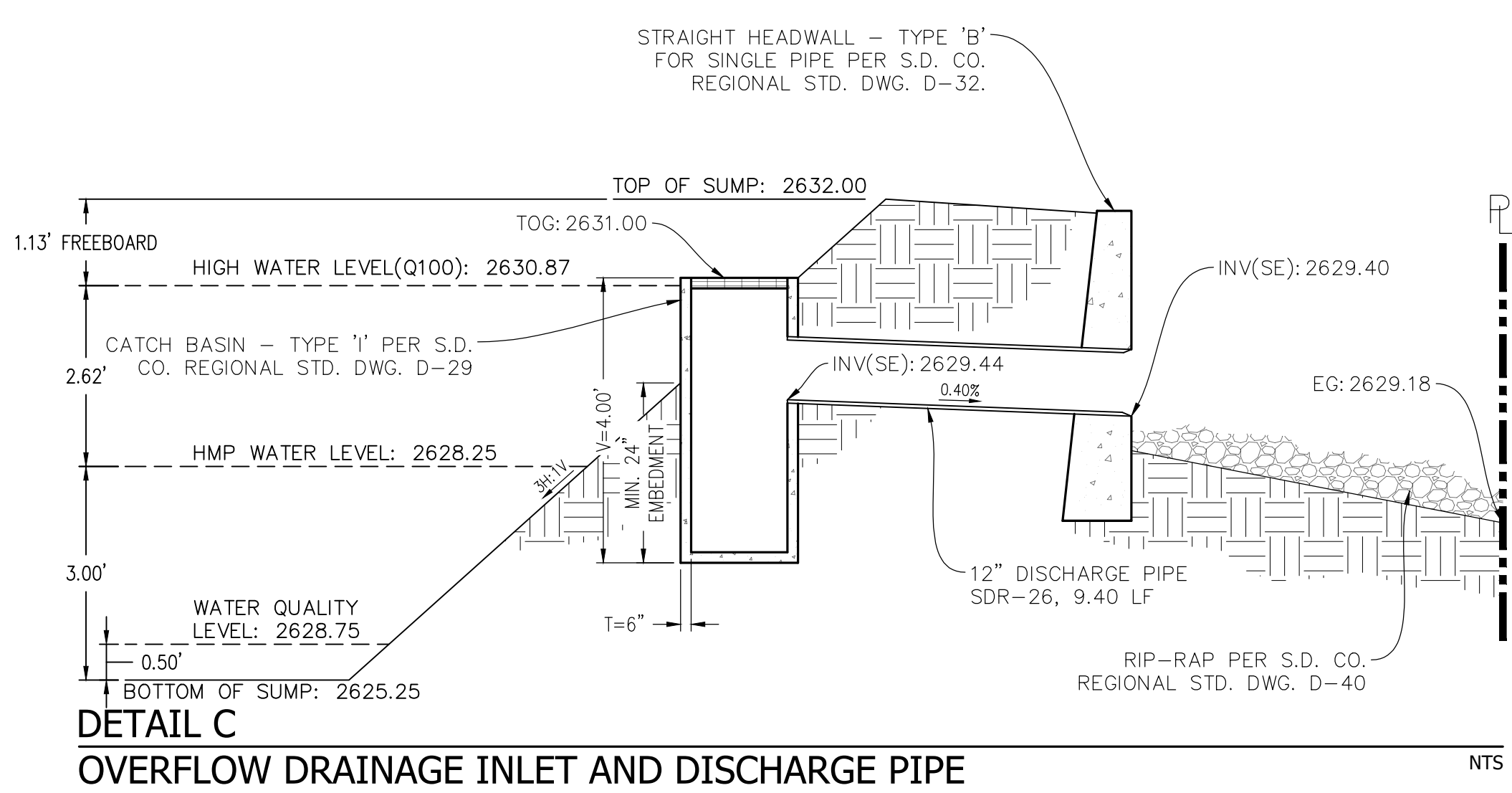
NOTE:
1. REFER TO GRADING PLAN FOR ADDITIONAL DETAILS AND INFORMATION



DETAIL A
SUMP SECTION

DETAIL B
SUMP SECTION

DMA SUMMARY TABLE			
IDENTIFICATION	IMPERVIOUS AREA (SQ. FT)	PERVIOUS AREA (SQ. FT)	DMA TYPE
DMA-1	7175	8182	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-2	1551	0	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-3	13220	63	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-4	3859	4589	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-5	5540	122	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-6	0	356	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-7	1772	297	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-8	0	9466	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-9	0	5407	RETAINED BY STRUCTURE - INFIL. BASIN/SUMP
DMA-10	391	941	BY-PASS TO OFFSITE
DMA-11	0	2287	SELF-MITIGATING
DMA-12	0	1581	SELF-MITIGATING
DMA-13	0	2881	SELF-MITIGATING
DMA-14	1030	0	BY-PASS TO SEPTIC SYSTEM

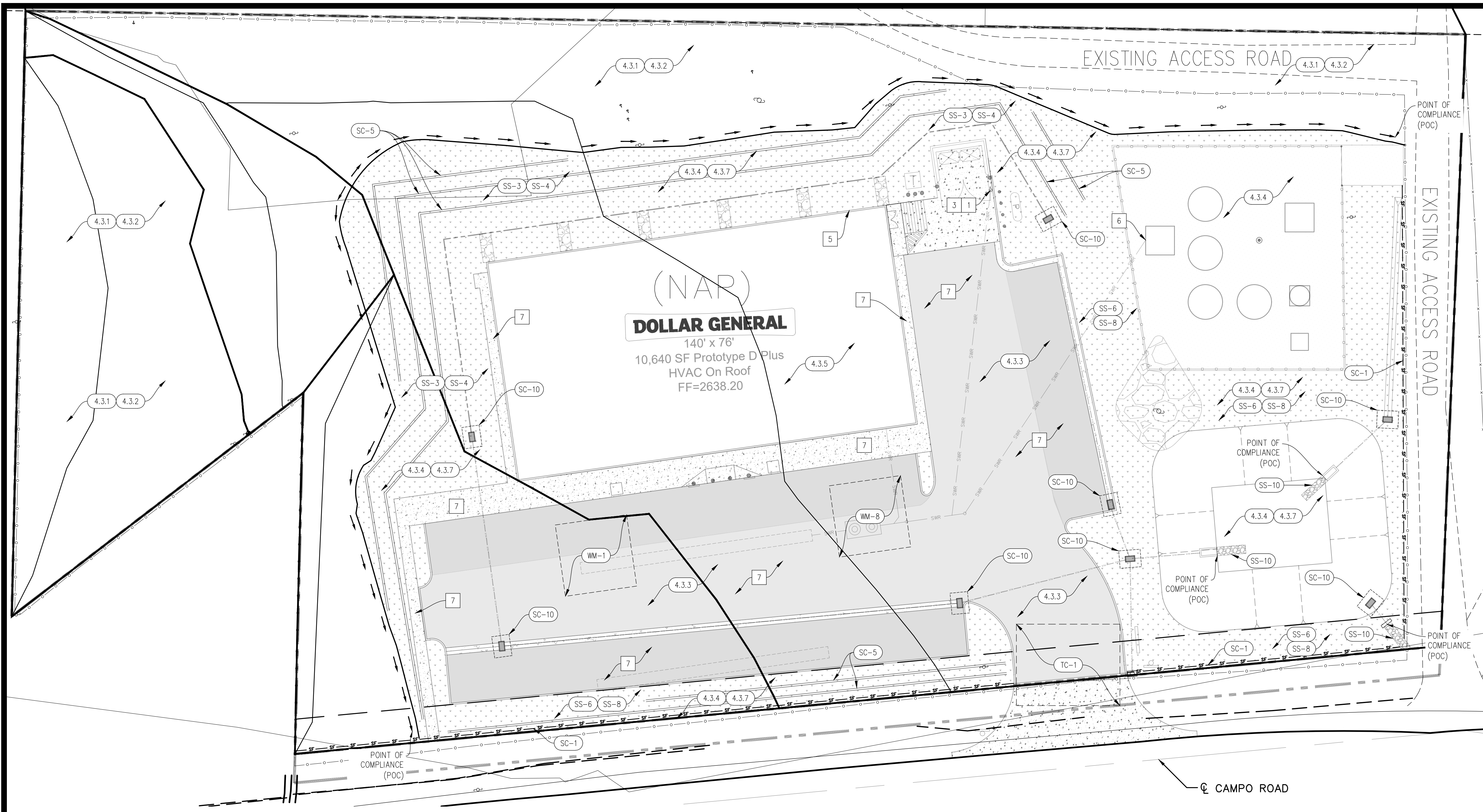


DETAIL C
OVERFLOW DRAINAGE INLET AND DISCHARGE PIPE

COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:
BENCH MARK		
DESCRIPTION: BRASS CAP DISK		
LOCATION: SET IN ROCK OUTCROP		
RECORD FROM: NGS BENCHMARK NO. DC0012		
ELEVATION: 2594.92' DATUM: NAVD 88		
DATE: _____ DATUM: _____		

PRIVATE CONTRACT		
SHEET 17	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
PLAN FOR: DOLLAR GENERAL - CAMPO, CA. SWQMP DMA PLAN		
CALIFORNIA COORDINATE INDEX 166-1929		
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK: GREGORY O. BLACK	
NAME: _____	R.C.E.: 53952	DATE: 6/21/2021
DATE: _____	GRADING PERMIT NO: PDS2019-LDGRMJ-30250	

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Mar. 30, 2021
 PHONE NO. (661) 330-2361 // EMAIL: goblack@palmeis.com



CONSTRUCTION STORMWATER BMPs (TABLE 7)

- SC-1 TEMPORARY SILT FENCING
- SC-5 FIBER ROLLS
- SC-10 TEMPORARY DRAINAGE INLET PROTECTION
- SS-3 HYDRAULIC MULCH
- SS-4 HYDROSEEDING
- SS-6 STRAW MULCH
- SS-8 WOOD MULCH
- SS-10 OUTLET PROTECTION/VELOCITY DISSIPATION DEVICES
- TC-1 TEMPORARY CONSTRUCTION ENTRANCE/EXIT
- WM-1 MATERIAL DELIVERY AND STORAGE
- WM-8 CONCRETE WASTE MANAGEMENT

POST CONSTRUCTION SITE DESIGN BMPs (GROUP 1-3)

- 4.3.1 MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES
- 4.3.2 CONSERVE NATURAL AREAS, SOILS AND VEGETATION.
- 4.3.3 MINIMIZE IMPERVIOUS AREAS
- 4.3.4 MINIMIZE SOIL COMPACTION
- 4.3.5 DISPERSE IMPERVIOUS AREAS
- 4.3.7 LANDSCAPE WITH NATIVE OR DROUGHT TOLERANT SPECIES

SOURCE CONTROL BMPs (GROUP 4)

- 1 TRASH AND REFUSE STORAGE AREA TO DRAIN TO PROPOSED ON-SITE SEPTIC SYSTEM.
- 2 MATERIALS AND EQUIPMENT TO BE CONTAINED IN-SIDE STORE (UNPLOTTABLE). NO MATERIALS AND EQUIPMENT ARE TO BE STORED OUTSIDE
- 3 LOADING AND UNLOADING AREA TO DRAIN TO PROPOSED ON-SITE SEPTIC SYSTEM.
- 4 INTERIOR FLOOR DRAINS (UNPLOTTABLE) CONNECTED TO ON-SITE SEPTIC SYSTEM.
- 5 AIR CONDITION DRAIN LINES TO DISCHARGE TO LANDSCAPE AREAS ON NORTH SIDE OF BUILDING. CONDENSATE SHALL BE OF LOW VOLUME AND NOT ENTER STORM DRAIN SYSTEM.
- 6 FIRE TEST SPRINKLER DISCHARGE TO DRAIN TO SEPTIC SYSTEM.
- 7 SIDE WALKS AND PARKING LOT TO BE SEPT REGULARLY TO PREVENT THE ACCUMULATION OF LITTER AND/OR DEBRIS.
- 8 BUILDING DESIGN (BY OTHERS) HAS BEEN ESTABLISHED TO DISCOURAGE NUISANCE PEST ENTRY. PEST MANAGEMENT INFORMATION PROVIDED TO OWNERS/OPERATORS (UNPLOTTABLE).

COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:
BENCH MARK		
DESCRIPTION: BRASS CAP DISK		
LOCATION: SET IN ROCK OUTCROP		
RECORD FROM: NGS BENCHMARK NO. DC0012	ELEVATION: 2594.92' DATUM: NAVD 88	
DATE:		

PRIVATE CONTRACT		
SHEET 18	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	18 SHEETS
PLAN FOR: DOLLAR GENERAL - CAMPO, CA. SWQMP BMP PLAN		
CALIFORNIA COORDINATE INDEX 166-1929		
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK: GREGORY O. BLACK	
NAME:	R.C.E.: 53952	DATE: 6/21/2021
DATE:	GRADING PERMIT NO: PDS2019-LDGRMJ-30250	

ENGINEER'S NAME: GREG BLACK, RCE 53952 DATE: Mar. 30, 2021
 PHONE NO. (661)330-2361 // EMAIL: goblack@palmeis.com



County of San Diego
Stormwater Quality Management Plan (SWQMP)
Attachment 3: Source Control BMP Worksheet

3.0 Cover Sheet and General Requirements

- Standard SWQMP Form Table 2 and PDP SWQMP Form Table 3 require the identification of pollutant-generating sources and associated BMPs for development projects.
- In some cases, County staff may request additional, more detailed documentation of source control BMP design details. If requested, applicants must submit a completed copy of this Source Control BMP Worksheet. This requirement can be satisfied either by submitting a copy of BMPDM Attachment E.1 (Source Control BMP Requirements) or equivalent documentation at the County's discretion.
- Submit this documentation using this cover sheet.
- Sources and BMPs must also be shown as applicable on DMA exhibits and construction plans (see Attachment 2).

If These Sources Will Be on the Project Site ...	... Then Your SWQMP Must Consider These Source Control BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<input checked="" type="checkbox"/> A. Onsite storm drain inlets <input type="checkbox"/> Not Applicable	<input checked="" type="checkbox"/> Locations of inlets.	<input checked="" type="checkbox"/> Mark all inlets with the words “No Dumping! Flows to Bay” or similar. See stencil template provided in Appendix I-4	<input checked="" type="checkbox"/> Maintain and periodically repaint or replace inlet markings. <input checked="" type="checkbox"/> Provide storm water pollution prevention information to new site owners, lessees, or operators. <input checked="" type="checkbox"/> See applicable operational BMPs in Fact Sheet SC-44, “Drainage System Maintenance,” in the CASQA Storm Water Quality Handbooks at https://www.casqa.org/resources/bmp-handbooks <input checked="" type="checkbox"/> Include the following in lease agreements: “Tenant shall not allow anyone to discharge anything to storm drains or to store or deposit materials so as to create a potential discharge to storm drains.”

If These Sources Will Be on the Project Site ...	... Then Your SWQMP must consider These Source Control BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<input checked="" type="checkbox"/> B. Interior floor drains and elevator shaft sump pumps <input type="checkbox"/> Not Applicable		<input checked="" type="checkbox"/> State that interior floor drains and elevator shaft sump pumps will be plumbed to sanitary sewer.	<input checked="" type="checkbox"/> Inspect and maintain drains to prevent blockages and overflow.
<input type="checkbox"/> C. Interior parking garages <input checked="" type="checkbox"/> Not Applicable		<input type="checkbox"/> State that parking garage floor drains will be plumbed to the sanitary sewer.	<input type="checkbox"/> Inspect and maintain drains to prevent blockages and overflow.
<input checked="" type="checkbox"/> D1. Need for future indoor & structural pest control <input type="checkbox"/> Not Applicable		<input checked="" type="checkbox"/> Note building design features that discourage entry of pests.	<input checked="" type="checkbox"/> Provide Integrated Pest Management information to owners, lessees, and operators.

If These Sources Will Be on the Project Site ...		... Then Your SWQMP must consider These Source Control BMPs	
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<input checked="" type="checkbox"/> D2. Landscape/ Outdoor Pesticide Use <input type="checkbox"/> Not Applicable	<input checked="" type="checkbox"/> Show locations of existing trees or areas of shrubs and ground cover to be undisturbed and retained. <input checked="" type="checkbox"/> Show self-retaining landscape areas, if any. <input checked="" type="checkbox"/> Show storm water treatment facilities.	<p>State that final landscape plans will accomplish all of the following.</p> <input checked="" type="checkbox"/> Preserve existing drought tolerant trees, shrubs, and ground cover to the maximum extent possible. <input checked="" type="checkbox"/> Design landscaping to minimize irrigation and runoff, to promote surface infiltration where appropriate, and to minimize the use of fertilizers and pesticides that can contribute to storm water pollution. <input checked="" type="checkbox"/> Where landscaped areas are used to retain or detain storm water, specify plants that are tolerant of periodic saturated soil conditions. <input checked="" type="checkbox"/> Consider using pest-resistant plants, especially adjacent to hardscape. <input checked="" type="checkbox"/> To ensure successful establishment, select plants appropriate to site soils, slopes, climate, sun, wind, rain, land use,	<input checked="" type="checkbox"/> Maintain landscaping using minimum or no pesticides. <input checked="" type="checkbox"/> See applicable operational BMPs in Fact Sheet SC-41, “Building and Grounds Maintenance,” in the CASQA Storm Water Quality Handbooks at https://www.casqa.org/resources/bmp-handbooks <input checked="" type="checkbox"/> Provide IPM information to new owners, lessees and operators.

If These Sources Will Be on the Project Site ...	... Then Your SWQMP must consider These Source Control BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<input type="checkbox"/> E. Pools, spas, ponds, decorative fountains, and other water features. <input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Show location of water feature and a sanitary sewer cleanout in an accessible area within 10 feet.	<input type="checkbox"/> If the local municipality requires pools to be plumbed to the sanitary sewer, place a note on the plans and state in the narrative that this connection will be made according to local requirements.	<input type="checkbox"/> See applicable operational BMPs in Fact Sheet SC-72, “Fountain and Pool Maintenance,” in the CASQA Storm Water Quality Handbooks at https://www.casqa.org/resources/bmp-handbooks
<input type="checkbox"/> F. Food service <input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> For restaurants, grocery stores, and other food service operations, show location (indoors or in a covered area outdoors) of a floor sink or other area for cleaning floor mats, containers, and equipment. <input type="checkbox"/> On the drawing, show a note that this drain will be connected to a grease interceptor before discharging to the sanitary sewer.	<input type="checkbox"/> Describe the location and features of the designated cleaning area. <input type="checkbox"/> Describe the items to be cleaned in this facility and how it has been sized to ensure that the largest items can be accommodated.	

If These Sources Will Be on the Project Site ...			
... Then Your SWQMP must consider These Source Control BMPs			
1 Potential Sources of	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<input checked="" type="checkbox"/> G. Refuse areas <input type="checkbox"/> Not Applicable	<input checked="" type="checkbox"/> Show where site refuse and recycled materials will be handled and stored for pickup. See local municipal requirements for sizes and other details of refuse areas. <input checked="" type="checkbox"/> If dumpsters or other receptacles are outdoors, show how the designated area will be covered, graded, and paved to prevent run-on and show locations of berms to prevent runoff from the area. Also show how the designated area will be protected from wind dispersal. <input checked="" type="checkbox"/> Any drains from dumpsters, compactors, and tallow bin areas must be connected to a grease removal device before discharge to sanitary sewer.	<input checked="" type="checkbox"/> State how site refuse will be handled and provide supporting detail to what is shown on plans. <input checked="" type="checkbox"/> State that signs will be posted on or near dumpsters with the words “Do not dump hazardous materials here” or similar.	<input checked="" type="checkbox"/> State how the following will be implemented: Provide adequate number of receptacles. Inspect receptacles regularly; repair or replace leaky receptacles. Keep receptacles covered. Prohibit/prevent dumping of liquid or hazardous wastes. Post “no hazardous materials” signs. Inspect and pick up litter daily and clean up spills immediately. Keep spill control materials available on-site. See Fact Sheet SC-34, “Waste Handling and Disposal” in the CASQA Storm Water Quality Handbooks at https://www.casqa.org/resources/bmp-handbooks

If These Sources Will Be on the Project Site ...	... Then Your SWQMP must consider These Source Control BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative Table and Narrative
<input type="checkbox"/> H. Industrial processes. <input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Show process area.	<input type="checkbox"/> If industrial processes are to be located onsite, state: “All process activities to be performed indoors. No processes to drain to exterior or to storm drain system.”	<input type="checkbox"/> See Fact Sheet SC-10, “Non-Storm Water Discharges” in the CASQA Storm Water Quality Handbooks at https://www.casqa.org/resources/bmp-handbooks
<input type="checkbox"/> I. Outdoor storage of equipment or materials. (See rows J and K for source control measures for vehicle cleaning, repair, and maintenance.) <input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Show any outdoor storage areas, including how materials will be covered. Show how areas will be graded and bermed to prevent run-on or runoff from area and protected from wind dispersal. <input type="checkbox"/> Storage of non-hazardous liquids must be covered by a roof and/or drain to the sanitary sewer system, and be contained by berms, dikes, liners, or vaults. <input type="checkbox"/> Storage of hazardous materials and wastes must be in compliance with the local hazardous materials ordinance and a Hazardous Materials Management Plan for the site.	<input type="checkbox"/> Include a detailed description of materials to be stored, storage areas, and structural features to prevent pollutants from entering storm drains. Where appropriate, reference documentation of compliance with the requirements of local Hazardous Materials Programs for: <ul style="list-style-type: none"> ▪ Hazardous Waste Generation ▪ Hazardous Materials Release Response and Inventory ▪ California Accidental Release Prevention Program ▪ Aboveground Storage Tank ▪ Uniform Fire Code Article 80 Section 103(b) & (c) 1991 ▪ Underground Storage Tank 	<input type="checkbox"/> See the Fact Sheets SC-31, “Outdoor Liquid Container Storage” and SC-33, “Outdoor Storage of Raw Materials” in the CASQA Storm Water Quality Handbooks at https://www.casqa.org/resources/bmp-handbooks

If These Sources Will Be on the Project Site ...		... Then Your SWQMP must consider These Source Control BMPs	
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<input type="checkbox"/> J. Vehicle and Equipment Cleaning <input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Show on drawings as appropriate: (1) Commercial/industrial facilities having vehicle /equipment cleaning needs must either provide a covered, bermed area for washing activities or discourage vehicle/equipment washing by removing hose bibs and installing signs prohibiting such uses. (2) Multi-dwelling complexes must have a paved, bermed, and covered car wash area (unless car washing is prohibited onsite and hoses are provided with an automatic shut- off to discourage such use). (3) Washing areas for cars, vehicles, and equipment must be paved, designed to prevent run-on to or runoff from the area, and plumbed to drain to the sanitary sewer. (4) Commercial car wash facilities must be designed such that no runoff from the facility is discharged to the storm drain system. Wastewater from the facility must discharge to the sanitary sewer, or a wastewater reclamation system must be installed.	<input type="checkbox"/> If a car wash area is not provided, describe measures taken to discourage onsite car washing and explain how these will be enforced.	Describe operational measures to implement the following (if applicable): <input type="checkbox"/> Washwater from vehicle and equipment washing operations must not be discharged to the storm drain system. <input type="checkbox"/> Car dealerships and similar may rinse cars with water only. <input type="checkbox"/> See Fact Sheet SC-21, “Vehicle and Equipment Cleaning,” in the CASQA Storm Water Quality Handbooks at https://www.casqa.org/resources/bmp-handbooks

If These Sources Will Be on the Project Site ...	... Then Your SWQMP must consider These Source Control BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<input type="checkbox"/> K. Vehicle/Equipment Repair and Maintenance <input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Accommodate all vehicle equipment repair and maintenance indoors. Or designate an outdoor work area and design the area to protect from rainfall, run-on runoff, and wind dispersal. <input type="checkbox"/> Show secondary containment for exterior work areas where motor oil, brake fluid, gasoline, diesel fuel, radiator fluid, acid-containing batteries or other hazardous materials or hazardous wastes are used or stored. Drains must not be installed within the secondary containment areas. <input type="checkbox"/> Add a note on the plans that states either (1) there are no floor drains, or (2) floor drains are connected to wastewater pretreatment systems prior to discharge to the sanitary sewer and an industrial waste discharge permit will be obtained.	<input type="checkbox"/> State that no vehicle repair or maintenance will be done outdoors, or else describe the required features of the outdoor work area. <input type="checkbox"/> State that there are no floor drains or if there are floor drains, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements. <input type="checkbox"/> State that there are no tanks, containers or sinks to be used for parts cleaning or rinsing or, if there are, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.	<p>In the report, note that all of the following restrictions apply to use the site:</p> <input type="checkbox"/> No person must dispose of, nor permit the disposal, directly or indirectly of vehicle fluids, hazardous materials, or rinsewater from parts cleaning into storm drains. <input type="checkbox"/> No vehicle fluid removal must be performed outside a building, nor on asphalt or ground surfaces, whether inside or outside a building, except in such a manner as to ensure that any spilled fluid will be in an area of secondary containment. Leaking vehicle fluids must be contained or drained from the vehicle immediately. <input type="checkbox"/> No person must leave unattended drip parts or other open containers containing vehicle fluid, unless such containers are in use or in an area of secondary containment.

If These Sources Will Be on the Project Site ...	... Then Your SWQMP must consider These Source Control BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<ul style="list-style-type: none"> <input type="checkbox"/> L. Fuel Dispensing Areas <input checked="" type="checkbox"/> Not Applicable 	<ul style="list-style-type: none"> <input type="checkbox"/> Fueling areas² must have impermeable floors (i.e., portland cement concrete or equivalent smooth impervious surface) that are (1) graded at the minimum slope necessary to prevent ponding; and (2) separated from the rest of the site by a grade break that prevents run-on of storm water to the MEP. <input type="checkbox"/> Fueling areas must be covered by a canopy that extends a minimum of ten feet in each direction from each pump. [Alternative: The fueling area must be covered and the cover's minimum dimensions must be equal to or greater than the area within the grade break or fuel dispensing area¹.] The canopy [or cover] must not drain onto the fueling area. 		<ul style="list-style-type: none"> <input type="checkbox"/> The property owner must dry sweep the fueling area routinely. <input type="checkbox"/> See the Business Guide Sheet, "Automotive Service—Service Stations" in the CASQA Storm Water Quality Handbooks at https://www.casqa.org/resources/bmp-handbooks

² The fueling area must be defined as the area extending a minimum of 6.5 feet from the corner of each fuel dispenser or the length at which the hose and nozzle assembly may be operated plus a minimum of one foot, whichever is greater.

If These Sources Will Be on the Project Site ...	... Then Your SWQMP must consider These Source Control BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<p>M. Loading Docks ✓</p> <p><input type="checkbox"/> Not Applicable</p>	<p>✓ Show a preliminary design for the loading dock area, including grading and drainage. Loading docks must be covered and/or roofed to minimize run-on to and runoff from the loading area. Roof drains must be positioned to direct storm water away from the loading area. Water from loading areas should be drained to the sanitary sewer where feasible. Direct connections to storm drains from depressed loading docks are prohibited.</p> <p>✓ Loading dock areas draining directly to the sanitary sewer must be equipped with a spill control device or equivalent device, which must be kept closed during periods of operation.</p> <p>✓ Provide a roof overhang over the loading area or install door skirts (covering) at each bay that enclose the end of the trailer.</p>		<p>✓ Move loaded and unloaded items indoors as soon as possible.</p> <p>✓ See Fact Sheet SC-30, “Outdoor Loading and Unloading,” in the CASQA Storm Water Quality Handbooks at https://www.casqa.org/resources/bmp-handbooks</p>

If These Sources Will Be on the Project Site ...	... Then Your SWQMP must consider These Source Control BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls— Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<input checked="" type="checkbox"/> N. Fire Sprinkler Test Water <input type="checkbox"/> Not Applicable		<input checked="" type="checkbox"/> Provide a means to drain fire sprinkler test water to the sanitary sewer.	<input checked="" type="checkbox"/> See the note in Fact Sheet SC-41, “Building and Grounds Maintenance,” in the CASQA Storm Water Quality Handbooks at https://www.casqa.org/resources/bmp-handbooks
O. Miscellaneous Drain or Wash Water <input type="checkbox"/> Boiler drain lines <input checked="" type="checkbox"/> Condensate drain lines <input type="checkbox"/> Rooftop equipment <input type="checkbox"/> Drainage sumps <input type="checkbox"/> Roofing, gutters, and trim <input type="checkbox"/> Not Applicable		<input type="checkbox"/> Boiler drain lines must be directly or indirectly connected to the sanitary sewer system and may not discharge to the storm drain system. <input checked="" type="checkbox"/> Condensate drain lines may discharge to landscaped areas if the flow is small enough that runoff will not occur. Condensate drain lines may not discharge to the storm drain system. <input type="checkbox"/> Rooftop mounted equipment with potential to produce pollutants must be roofed and/or have secondary containment. <input type="checkbox"/> Any drainage sumps onsite must feature a sediment sump to reduce the quantity of sediment in pumped water. <input type="checkbox"/> Avoid roofing, gutters, and trim made of copper or other unprotected metals that may leach into runoff.	

If These Sources Will Be on the Project Site ...	... Then Your SWQMP must consider These Source Control BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on Drawings	3 Permanent Controls—List in Table and Narrative	4 Operational BMPs—Include in Table and Narrative
<input checked="" type="checkbox"/> P. Plazas, sidewalks, and parking lots. <input type="checkbox"/> Not Applicable			<input type="checkbox"/> Plazas, sidewalks, and parking lots must be swept regularly to prevent the accumulation of litter and debris. Debris from pressure washing must be collected to prevent entry into the storm drain system. Washwater containing any cleaning agent or degreaser must be collected and discharged to the sanitary sewer and not discharged to a storm drain.



6.0 General Requirements

- Use this attachment to document all proposed (1) self-mitigating, (2) de minimis, and (3) self-retaining DMAs. Indicate under “DMA Compliance Option” below which design options will be used to satisfy structural performance requirements for one or more DMA.

DMA Compliance Option	Required Sub-attachments	BMPDM Design Resources
<input checked="" type="checkbox"/> Self-mitigating	<ul style="list-style-type: none"> • Sub-attachment 6.1 	<ul style="list-style-type: none"> • BMPDM Section 5.2.1
<input type="checkbox"/> De minimis	<ul style="list-style-type: none"> • Sub-attachment 6.2 	<ul style="list-style-type: none"> • BMPDM Section 5.2.2
<input type="checkbox"/> Self-retaining¹ <u>SSD-BMP Type(s)</u> <input type="checkbox"/> Impervious Area Dispersion <input type="checkbox"/> Tree Wells	<ul style="list-style-type: none"> • Sub-attachment 6.3 • Sub-attachment 6.3.1 • Sub-attachment 6.3.2 	<ul style="list-style-type: none"> • BMPDM Section 5.2.3 (all options) • Fact Sheet SD-B (Appendix E.8) • Fact Sheet SD-A (Appendix E.7)

- Submit this cover page and all “Required Sub-attachments” listed for each selected DMA compliance option.
- See the BMPDM sections and appendices listed under “BMPDM Design Resources” for additional explanation of design requirements. Each constructed feature must fully satisfy the requirements described in these resources, and any other guidance identified by the County.
- DMA Exhibits and Construction Plans: DMAs, features, and BMPs identified and described in this attachment must be shown on DMA Exhibits and all applicable construction plans submitted for the project. See Attachment 2 for additional instruction on exhibits and plans.

¹ If “Self-retaining” is selected, also choose the types of Significant Site Design BMPs (SSD-BMPs) to be used. SSD-BMPs are Site Design BMPs that are sized and constructed to fully satisfy all applicable Structural Performance Standards for a DMA.

6.1 Self-mitigating DMAs (complete this page once for ALL self-mitigating DMAs)

Self-mitigating DMAs consist of natural or landscaped areas that drain directly offsite or to the public storm drain system. These DMAs are excluded from DCV calculations.

- Provide the information requested below for each proposed self-mitigating DMA. Add rows or copy the table if additional entries are needed.

DMA #	a. DMA Area (ft ²)	Incidental Impervious Area		Permit # and Sheet #
		b. Size(ft ²)	c. % (b/a*100)	
11	2287	0	0%	PDS2019-LDGMJ-30250, SHEET 17
12	1581	0	0%	PDS2019-LDGMJ-30250, SHEET 17
13	2881	0	0%	PDS2019-LDGMJ-30250, SHEET 17

- “DMA #”, “DMA Area”, and “Permit # and Sheet #” are required for all DMAs listed.
- “Incidental Impervious Area” calculations are required only where applicable (see below).
- Each self-mitigating DMA must fully satisfy all design requirements and restrictions described in BMPDM Section 5.2.1 and any other guidance or instruction identified by the County. Check the boxes below to confirm that all required conditions are satisfied for every DMA listed.

Each DMA is hydraulically separate from other DMAs that contain permanent storm water pollutant control BMPs.

Natural and Landscaped Areas

Each DMA consists solely of natural or landscaped areas, except for incidental impervious areas (see below).

Each area drains directly offsite or to the public storm drain system.

Soils are undisturbed native topsoil, or disturbed soils that have been amended and aerated to promote water retention characteristics equivalent to undisturbed native topsoil.

Vegetation is native and/or non-native/non-invasive drought tolerant species that do not require regular application of fertilizers and pesticides.

Incidental Impervious Areas (if applicable; see above)

Minor impervious areas may be permitted within the DMA if they satisfy the following criteria:

They are not hydraulically connected to other impervious areas (unless it is a storm water conveyance system such as a brow ditch).

They comprise less than 5% of the total DMA. Calculate the % incidental impervious area in the table above (c= b/a). DMAs are not self-mitigating if this area is 5% or greater.

6.3 Self-retaining DMAs using Significant Site Design BMPs

Self-retaining DMAs use Site Design BMPs to fully-retain the entire DCV, at a minimum. Site Design BMPs that fully retain the DCV, at a minimum, therefore replacing the need for a Structural BMP (S-BMP), are classified as Significant Site Design BMPs (SSD-BMPs). To satisfy pollutant control requirements only, self-retaining means retention of the entire DCV. However, under some circumstances, a self-retaining DMA can also satisfy hydromodification management requirements by implementing BMPs that retain a greater volume of runoff.

- Provide the information requested below for each proposed self-retaining DMA. Add rows or copy the table if additional entries are needed.

DMA #	DMA Area (ft ²)	BMP Type (choose one per DMA)		Permit # and Sheet #
		Dispersion Area (Att. 6.3.1)	Tree Wells (Att. 6.3.2)	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
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		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	

Copy and Paste table here for additional DMAs

- “DMA #”, “DMA Area”, and “Permit # and Sheet #” are required.
- Select one BMP Type per DMA. Provide detailed documentation for each DMA in Attachments 6.3.1 (Impervious Dispersion Areas) and/or 6.3.2 (Tree Wells) below.
- Each self-retaining DMA must fully satisfy all design requirements and restrictions described in BMPDM Section 5.2.3, applicable BMPDM Appendix E Fact Sheets, and any other guidance or instruction identified by the County.

²Applicants wishing to utilize parameters less conservative than listed here must submit modeling to support their proposal. Consult your project manager for more information.

³Including the permeable pavement.

6.3.1 Self-retaining DMAs with Impervious Dispersion Areas

Impervious area dispersion (dispersion) refers to the practice of effectively disconnecting impervious areas from directly draining to the storm drain system by routing runoff from impervious areas such as rooftops (through downspout disconnection), walkways, and driveways onto the surface of adjacent pervious areas. The intent is to slow runoff discharges and reduce volumes. Dispersion with partial or full infiltration results in significant volume reduction by means of infiltration and evapotranspiration. When adequately sized, dispersion can also be used to satisfy both the pollutant control and hydromodification management structural performance standards for a DMA.

- Each self-retaining DMA with impervious area dispersion must fully satisfy all design requirements and restrictions described in BMPDM Section 5.2.3, Fact Sheet SD-B: Impervious Area Dispersion, and any other guidance or instruction identified by the County.
- Documentation of compliance with all applicable conditions must be submitted with this sub-attachment using the **Summary Sheet for DMAs with Impervious Area Dispersion** on the next page. One version of this Summary Sheet must be completed for each applicable DMA.
- Applicants are responsible to comply with all other applicable requirements, regardless of whether they are included in the summary sheet.
- The following applies if the dispersion area is **native soil** (SD-B in Appendix E):
 - For pollutant control only, the DMA is considered self-retaining if the impervious to pervious ratio is:
 - 2:1 when the pervious area is composed of Hydrologic Soil Group A
 - 1:1 when the pervious area is composed of Hydrologic Soil Group B
- The following applies if the dispersion area includes **amended soil** (SD-B in Appendix E):
 - DMAs using impervious area dispersion can be considered to meet both pollutant control and hydromodification flow control requirements if the impervious to pervious area ratio is 1:1 or less and all other design requirements of SD-B are satisfied, including 11 inches of amended soil.
- The following apply if the dispersion area is **permeable pavement** (SD-D in Appendix E):
 - For pollutant control only, a DMA is considered self-retaining if the ratio of total drainage area (including permeable pavement) to area of permeable pavement is 1.5:1 or less, and all other design requirements of SD-D are satisfied.
 - Hydromodification management performance standards can be satisfied using permeable pavement only if constructed to Structural BMP specifications. In this case, the permeable pavement must be sized and constructed in accordance with the requirements of INF-3.

²Applicants wishing to utilize parameters less conservative than listed here must submit modeling to support their proposal. Consult your project manager for more information.

³Including the permeable pavement.

Summary Sheet for DMAs with Impervious Area Dispersion (Complete 1 sheet per DMA)

DMA #						
A. Minimum Sizing Requirements						
Verify that minimum standards are satisfied for the applicable dispersion area type below ² . Native Soil (Pollutant Control Only) Select one and provide calculations below. <input type="checkbox"/> <u>Soil Group A</u> : Ratio I:P is 2:1 or less <input type="checkbox"/> <u>Soil Group B</u> : Ratio I:P is 1:1 or less <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; border: none;"><i>Impervious Area (ft²)</i></td> <td style="text-align: center; border: none;"><i>Permeable Dispersion Area (ft²)</i></td> <td style="text-align: center; border: none;"><i>Ratio I:P</i></td> </tr> <tr> <td style="border: 1px solid black; width: 33%; height: 20px;"></td> <td style="border: 1px solid black; width: 33%; height: 20px;"></td> <td style="border: 1px solid black; width: 33%; height: 20px;"></td> </tr> </table>	<i>Impervious Area (ft²)</i>	<i>Permeable Dispersion Area (ft²)</i>	<i>Ratio I:P</i>			
<i>Impervious Area (ft²)</i>	<i>Permeable Dispersion Area (ft²)</i>	<i>Ratio I:P</i>				
Amended Soil (Pollutant Control plus Hydromodification Management) Must satisfy both conditions and provide calculations below. <input type="checkbox"/> Ratio I:P is 1:1 or less, AND <input type="checkbox"/> 11 inches or more of the top of the pervious area consists of amended soils (Fact Sheet SD-F) <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; border: none;"><i>Impervious Area (ft²)</i></td> <td style="text-align: center; border: none;"><i>Permeable Dispersion Area (ft²)</i></td> <td style="text-align: center; border: none;"><i>Ratio I:P</i></td> </tr> <tr> <td style="border: 1px solid black; width: 33%; height: 20px;"></td> <td style="border: 1px solid black; width: 33%; height: 20px;"></td> <td style="border: 1px solid black; width: 33%; height: 20px;"></td> </tr> </table>	<i>Impervious Area (ft²)</i>	<i>Permeable Dispersion Area (ft²)</i>	<i>Ratio I:P</i>			
<i>Impervious Area (ft²)</i>	<i>Permeable Dispersion Area (ft²)</i>	<i>Ratio I:P</i>				
Permeable Pavement (Pollutant Control Only) Provide calculations below. <input type="checkbox"/> Ratio DMA area to area of permeable pavement is 1.5:1 or less <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; border: none;"><i>DMA Area³ (ft²)</i></td> <td style="text-align: center; border: none;"><i>Permeable Pavement Area (ft²)</i></td> <td style="text-align: center; border: none;"><i>Ratio DMA:Pavement</i></td> </tr> <tr> <td style="border: 1px solid black; width: 33%; height: 20px;"></td> <td style="border: 1px solid black; width: 33%; height: 20px;"></td> <td style="border: 1px solid black; width: 33%; height: 20px;"></td> </tr> </table>	<i>DMA Area³ (ft²)</i>	<i>Permeable Pavement Area (ft²)</i>	<i>Ratio DMA:Pavement</i>			
<i>DMA Area³ (ft²)</i>	<i>Permeable Pavement Area (ft²)</i>	<i>Ratio DMA:Pavement</i>				
B. Minimum Design Criteria						
Check the boxes below to confirm that each design criterion has been satisfied for the DMA. Impervious Areas: <input type="checkbox"/> Are graded to ensure area that the full DCV drains to the dispersion area before the runoff discharges from the DMA. Pervious Dispersion Areas: <input type="checkbox"/> Are less than 5% slope and sheet flow over a distance of at least 10 feet from inflow to overflow route. <input type="checkbox"/> Have inflow velocities of 3 ft/s or less OR use energy dissipation methods (e.g., riprap, level spreader) for concentrated inflows. <input type="checkbox"/> Are densely and robustly vegetated with drought tolerant species. <input type="checkbox"/> Consist of soil types capable of supporting or being amended to support vegetation (e.g., with sand or compost). If applicable, media amendments have been tested to verify that they are not a source of pollutants. <input type="checkbox"/> Are owned by the project owner and will be dedicated to exclude future uses that might reduce their effectiveness.						

Copy and Paste table here for additional DMAs

²Applicants wishing to utilize parameters less conservative than listed here must submit modeling to support their proposal. Consult your project manager for more information.

³Including the permeable pavement.

6.3.2 Self-retaining DMAs with Tree Wells

Trees wells can provide a variety of benefits such as interception and increased infiltration of rainfall, reduced erosion, energy conservation, air quality improvement, and aesthetic enhancement. They can also be used to satisfy both pollutant control and hydromodification management performance standards for a DMA.

- Each self-retaining DMA with tree wells must fully satisfy all design requirements and restrictions described in BMPDM Section 5.2.3, Fact Sheet SD-A: Tree Wells, and any other guidance or instruction identified by the County.
- For pollutant control only, the DMA must retain the entire DCV. For hydromodification management, an additional volume must be retained in accordance with the sizing requirements presented in the DCV multiplier table in Fact Sheet SD-A.
- Documentation of compliance with applicable conditions must be submitted using the **Summary Sheet for Self-retaining DMAs with Tree Wells** on the next page. One version of this Summary Sheet must be completed for each applicable DMA.
- If both pollutant control and hydromodification standards apply, the soil depth of all tree wells in the DMA must be selected before determining the Required Retention Volume (RRV). Each tree well must be constructed to the selected depth. For pollutant control only, tree wells within a DMA may be constructed to different soil depths.
- In most cases tree wells must use Amended Soil per Fact Sheet SD-F. However, Structural Soil is required in some cases (e.g., placing the tree well next to a curb). See **Structural Requirements for Confined Tree Well Soil Volume** in Fact Sheet SD-A for additional explanation. If applicable, list the DMAs and Tree Well #s below for all tree wells requiring Structural Soil.

DMA #	Tree Wells Requiring Structural Soil (list Tree Well #s)

- The Design Capture Volume (DCV) must be known for each DMA in order to determine the volume to be mitigated by the tree wells. Instructions for DCV calculation are provided in BMPDM Appendix B.1. An automated version of Worksheet B.1 (Calculation of Design Capture Volume) is available at www.sandiegocounty.gov/stormwater under the Development Resources tab.

Summary Sheet for Self-retaining DMAs with Tree Wells (complete one sheet per DMA)

DMA #:		DMA Area (ft²):	
Required Retention Volume (RRV)			
a. Design Capture Volume (DCV; ft³):			
b. DCV Multiplier (Fact Sheet SD-A)			
Applicable Structural Performance Standards (select one)	Tree well soil depth (inches)	Underlying soil type (A, B, C, or D)	DCV Multiplier
<input type="checkbox"/> Pollutant control only	Any	All	1.0
<input type="checkbox"/> Pollutant control plus hydromodification			
c. Required Retention Volume (ft³) [DCV * DCV Multiplier]			
Tree Well Credit Volume (add records or copy this sheet as needed for additional tree wells)			
Provide the information below for each tree well or group of tree wells within the DMA. A single entry can be used for any group of tree wells of the same species and soil depth.			
Tree species or name		No. tree wells	
Mature Canopy Diameter (ft)	Credit Volume per tree well (ft³)		
Tree well ID #(s)	Combined Volume (ft³)		
Tree species or name		No. tree wells	
Mature Canopy Diameter (ft)	Credit Volume per tree well (ft³)		
Tree well ID #(s)	Combined Volume (ft³)		
Tree species or name		No. tree wells	
Mature Canopy Diameter (ft)	Credit Volume per tree well (ft³)		
Tree well ID #(s)	Combined Volume (ft³)		
Tree species or name		No. tree wells	
Mature Canopy Diameter (ft)	Credit Volume per tree well (ft³)		
Tree well ID #(s)	Combined Volume (ft³)		
Tree species or name		No. tree wells	
Mature Canopy Diameter (ft)	Credit Volume per tree well (ft³)		
Tree well ID #(s)	Combined Volume (ft³)		
Total Credit Volume (ft³)			
Add the combined volumes above. Total credit volume must equal or exceed the RRV.			

Copy and Paste table here for additional DMAs



7.0 General Requirements

- Submit this cover page and all required Sub-attachments for all structural BMPs proposed for the project.
- See the BMPDM sections and appendices listed under “BMPDM Design Resources” in the table below for additional explanation of design requirements. Constructed features must fully satisfy the requirements described in these resources, and any other guidance identified by the County.
- PDPs subject to hydromodification management requirements must also implement structural BMPs for flow control for hydromodification management. Completion of SWQMP Attachment 8 is also required for these BMPs.
- DMA Exhibits and Construction Plans: DMAs, features, and BMPs identified and described in this attachment must be shown on DMA Exhibits and all applicable construction plans submitted for the project. See Attachment 2 for additional instruction on exhibits and plans.
- Structural BMP Certification. All structural BMPs documented this attachment and in Attachment 8 must be certified by a registered engineer in Sub-attachment 7.1.
- Structural BMP Verification. Structural BMP installation must be verified by the County at the completion of construction. Applicants must complete an Installation Verification Form (Attachment 10).

Sub-attachments (check all that are completed)	Requirement	BMPDM Design Resources
<input checked="" type="checkbox"/> 7.1: Preparer’s Certification	Required	• N/A
<input checked="" type="checkbox"/> 7.2: Structural BMP Strategy	Required	• BMPDM Sections 5.1., 5.3, 5.4, and Chapter 6 • BMPDM Appendix E (pages E-78 through E-210)
<input checked="" type="checkbox"/> 7.3: Structural BMP Checklist(s)	Required	
<input checked="" type="checkbox"/> 7.4: Stormwater Pollutant Control Worksheet Calculations	Required	• BMPDM Appendix B
<input type="checkbox"/> 7.5: Identification and Narrative of Receiving Water and Pollutants of Concern	Required if flow-thru BMPs are proposed	• N/A

7.1 Engineer of Work Certification for Structural BMPs

Project Name Campo Dollar General
Permit Application Number _____

CERTIFICATION

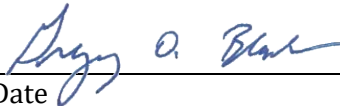
I hereby declare that I am the Engineer in Responsible Charge of design of structural storm water best management practices (BMPs) for this project, and that I have exercised responsible charge over the design of the BMPs as defined in Section 6703 of the Business and Professions Code, and that the design is consistent with the PDP requirements of the County of San Diego BMP Design Manual, which is a design manual for compliance with local County of San Diego Watershed Protection Ordinance (Sections 67.801 et seq.) and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2013-0001 as amended by R9-2015-0001 and R9-2015-0100) requirements for storm water management. I have read and understand that the County of San Diego has adopted minimum requirements for managing urban runoff, including storm water, from land development activities, as described in the BMP Design Manual.

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 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 County staff is confined to a review and does not relieve me, as the Engineer in Responsible Charge of design of structural storm water BMPs for this project, of my responsibilities for their design.

In addition to the structural pollutant control BMPs described in this attachment, this certification applies to the Structural Hydromodification Management BMPs described in Attachment 8 (check if applicable).

RCE 53592 EXP: 12/31/2021

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



Gregory O. Black

Print Name

Palmetto Engineering and Land Surveying

Company

July 5, 2021

Date

Engineer's Seal:



7.2 Structural BMP Strategy

7.2.1 Narrative Strategy (Continue description on subsequent pages as necessary)

Describe the general strategy for structural BMP implementation at the project site. For pollutant control BMPs, your description must address the key points outlined in Section 5.1 of the BMP Design Manual, and the type of BMPs selected. For projects requiring hydromodification flow control BMPs, indicate whether pollutant control and flow control BMPs are integrated or separate.

With the development of the new Dollar general, approximately 60% or 1.64 acres of the existing area will be graded/improved as illustrated on the submitted civil plans with the remaining areas to the west and north to remain undisturbed. New AC pavement for parking, concrete paving for sidewalk and loading areas, curb and gutter, curbing, v-gutter, and landscaping will be installed. Additionally, a new underground drainage system consisting of catch basins connected via PVC drainage pipe will be constructed. Storm water runoff will enter into 1 of 7 catch basins and a slotted and drain into a retention basin on-site located in the southeast portion of the property.

The project area is divided into 13 drainage or watershed areas. 8 of the 14 watershed areas (DMAs 1-8) will drain into 1 of 7 catch basins/drainage inlets and a slotted drain. 4 of the watershed areas (DMAs 10-13) will drain offsite onto Campo Road and the adjacent property to the east. Of the 4 watershed areas that are to drain off-site 1 area (DMA-10) is by-passing the structural BMP and the 3 remaining areas (DMA 11-13) self-mitigating. The 14th area will drain into the onsite septic system as this area contains the loading dock and trash enclosure and must be hydraulically separated from draining offsite and into the retention basin. The 8 areas that runoff drains into drainage inlets, runoff will be routed to an onsite retention basin with an overflow discharge structure. The volume provided prior to any runoff discharging through overflow discharge structure is adequate to retain the volume generated from a 100-year storm event. This retained runoff will then infiltrate into the underlying soils. Any runoff generated from a storm larger than 100-year storm event will pass through the overflow discharge structure and discharge onto Campo Road.

7.2.2 Structural BMP Summary Table (Complete for all proposed structural BMPs)

- List and provide the information requested below for all pollutant control and hydromodification management BMPs proposed for the project.
- For each BMP listed, complete the Structural BMP Checklist on the next page. Copy the Checklist as many times as needed.

BMP ID #	DMA #	DMA Area (ft ²)	Structural BMP Type							Permit # and Sheet #
			Harvest and Use	Infiltration	Unlined Biofiltration	Lined Biofiltration	Flow-thru treatment	Hydromodification Management ¹	Other	
	1	15357	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PDS2019-LDGMJ-30250, Sheet # 17
	2	1551	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PDS2019-LDGMJ-30250, Sheet # 17
	3	13283	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PDS2019-LDGMJ-30250, Sheet # 17
	4	8448	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PDS2019-LDGMJ-30250, Sheet # 17
	5	5662	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PDS2019-LDGMJ-30250, Sheet # 17
	6	356	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PDS2019-LDGMJ-30250, Sheet # 17
	7	2069	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PDS2019-LDGMJ-30250, Sheet # 17
	8	9466	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PDS2019-LDGMJ-30250, Sheet # 17
INF 1	9	5407	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PDS2019-LDGMJ-30250, Sheet #17
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

¹ Hydromodification Management BMPs must be accompanied by BMPs that provide pollutant control.

			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Copy and Paste table here for additional BMPs

7.3 Structural BMP Checklist (Complete once for each proposed structural BMP)

Structural BMP ID #	INF-1	Permit # and Sheet #	PDS2019-LDGMJ-30250, Sheet 17		
BMP Type					
Infiltration			Harvest and Use		
<input checked="" type="checkbox"/> Infiltration basin (INF-1)			<input type="checkbox"/> Cistern (HU-1)		
<input type="checkbox"/> Bioretention (INF-2)			Flow-thru Treatment (describe below)		
<input type="checkbox"/> Permeable pavement (INF-3)			<input type="checkbox"/> With prior lawful approval to meet earlier PDP requirements		
Unlined Biofiltration			<input type="checkbox"/> Pre-treatment/forebay for an onsite retention or biofiltration BMP ²		
<input type="checkbox"/> Biofiltration with partial retention (PR-1)			<input type="checkbox"/> With alternative compliance		
Lined Biofiltration			Hydromodification Management³		
<input type="checkbox"/> Biofiltration (BF-1)			<input type="checkbox"/> Detention pond or vault		
<input type="checkbox"/> Nutrient Sensitive Media Design (BF-2)			<input type="checkbox"/> Other (describe below)		
<input type="checkbox"/> Proprietary Biofiltration (BF-3)					
BMP Purpose					
<input type="checkbox"/> Pollutant control only			<input type="checkbox"/> Pre-treatment/forebay for another BMP		
<input type="checkbox"/> Hydromodification control only			<input type="checkbox"/> Other (describe below)		
<input checked="" type="checkbox"/> Combined pollutant control and hydromodification					
BMP Verification (See BMPDM Section 8.3)					
Provide name and contact information for the party responsible to sign BMP verification forms			Owner to Provide		
BMP Ownership and Maintenance (See BMPDM Section 7.3 and Attachment 11)					
BMP Maintenance Category	Cat. 1	Cat. 2	Cat. 3	Cat. 4	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Final owner of BMP	<input type="checkbox"/> HOA	<input checked="" type="checkbox"/> Property Owner	<input type="checkbox"/> County		
	<input type="checkbox"/> Other (describe):				
Maintenance of BMP into perpetuity	<input type="checkbox"/> HOA	<input checked="" type="checkbox"/> Property Owner	<input type="checkbox"/> County		
	<input type="checkbox"/> Other (describe):				
Discussion (As needed; Continue on subsequent pages as necessary)					

Copy and Paste table here for additional BMPs

² Indicate which onsite retention or biofiltration BMP the pre-treatment/forebay serves.

³ Hydromodification Management BMPs must be accompanied by BMPs that provide pollutant control.

7.4 Storm Water Pollutant Control Worksheet Calculations

- Use this page as a cover sheet for the submittal of any required worksheets below.
- Complete the checklist to identify which BMPDM Appendix B (Storm Water Pollutant Control Hydrologic Calculations and Sizing Methods) worksheets are included with this attachment.
- See BMPDM Appendix B for an explanation of the applicability of individual worksheets and detailed guidance on their completion.

Worksheet	Requirement
<input checked="" type="checkbox"/> Worksheet B.1 Calculation of Design Capture Volume (DCV)	Required
<input checked="" type="checkbox"/> Worksheet B.2 Retention Requirements	Required
<input checked="" type="checkbox"/> Worksheet B.3 BMP Performance	Required
<input type="checkbox"/> Worksheet B.4 Major Maintenance Intervals for Reduced-sized BMPs	If applicable
<input type="checkbox"/> Other worksheets	As required

Automated Worksheet B.1: Calculation of Design Capture Volume (V2.0)

Category	#	Description	<i>i</i>	Units
Standard Drainage Basin Inputs	1	Drainage Basin ID or Name	1	unitless
	2	85th Percentile 24-hr Storm Depth	0.64	inches
	3	Impervious Surfaces <u>Not Directed to Dispersion Area</u> (C=0.90)	33,117	sq-ft
	4	Semi-Pervious Surfaces <u>Not Serving as Dispersion Area</u> (C=0.30)	28,482	sq-ft
	5	Engineered Pervious Surfaces <u>Not Serving as Dispersion Area</u> (C=0.10)	0	sq-ft
	6	Natural Type A Soil <u>Not Serving as Dispersion Area</u> (C=0.10)	0	sq-ft
	7	Natural Type B Soil <u>Not Serving as Dispersion Area</u> (C=0.14)	0	sq-ft
	8	Natural Type C Soil <u>Not Serving as Dispersion Area</u> (C=0.23)	0	sq-ft
	9	Natural Type D Soil <u>Not Serving as Dispersion Area</u> (C=0.30)	0	sq-ft
Dispersion Area, Tree Well & Rain Barrel Inputs (Optional)	10	Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels?	No	yes/no
	11	Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)		sq-ft
	12	Semi-Pervious Surfaces Serving as Dispersion Area per SD-B (Ci=0.30)		sq-ft
	13	Engineered Pervious Surfaces Serving as Dispersion Area per SD-B (Ci=0.10)		sq-ft
	14	Natural Type A Soil Serving as Dispersion Area per SD-B (Ci=0.10)		sq-ft
	15	Natural Type B Soil Serving as Dispersion Area per SD-B (Ci=0.14)		sq-ft
	16	Natural Type C Soil Serving as Dispersion Area per SD-B (Ci=0.23)		sq-ft
	17	Natural Type D Soil Serving as Dispersion Area per SD-B (Ci=0.30)		sq-ft
	18	Number of Tree Wells Proposed per SD-A		#
	19	Average Mature Tree Canopy Diameter		ft
	20	Number of Rain Barrels Proposed per SD-E		#
Initial Runoff Factor Calculation	21	Average Rain Barrel Size		gal
	22	Total Tributary Area	61,599	sq-ft
	23	Initial Runoff Factor for Standard Drainage Areas	0.62	unitless
	24	Initial Runoff Factor for Dispersed & Dispersion Areas	0.00	unitless
	25	Initial Weighted Runoff Factor	0.62	unitless
	26	Initial Design Capture Volume	2,037	cubic-feet
Dispersion Area Adjustments	27	Total Impervious Area Dispersed to Pervious Surface	0	sq-ft
	28	Total Pervious Dispersion Area	0	sq-ft
	29	Ratio of Dispersed Impervious Area to Pervious Dispersion Area	n/a	ratio
	30	Adjustment Factor for Dispersed & Dispersion Areas	1.00	ratio
	31	Runoff Factor After Dispersion Techniques	0.62	unitless
	32	Design Capture Volume After Dispersion Techniques	2,037	cubic-feet
Tree & Barrel Adjustments	33	Total Tree Well Volume Reduction	0	cubic-feet
	34	Total Rain Barrel Volume Reduction	0	cubic-feet
Results	35	Final Adjusted Runoff Factor	0.62	unitless
	36	Final Effective Tributary Area	38,191	sq-ft
	37	Initial Design Capture Volume Retained by Site Design Elements	0	cubic-feet
	38	Final Design Capture Volume Tributary to BMP	2,037	cubic-feet
No Warning Messages				

Automated Worksheet B.2: Retention Requirements (V2.0)

Category	#	Description	<i>i</i>	Units
Basic Analysis	1	Drainage Basin ID or Name	1	unitless
	2	85th Percentile Rainfall Depth	0.64	inches
	3	Predominant NRCS Soil Type Within BMP Location	A	unitless
	4	Is proposed BMP location Restricted or Unrestricted for Infiltration Activities?	Unrestricted	unitless
	5	Nature of Restriction	n/a	unitless
	6	Do Minimum Retention Requirements Apply to this Project?	Yes	yes/no
	7	Are Habitable Structures Greater than 9 Stories Proposed?	No	yes/no
Advanced Analysis	8	Has Geotechnical Engineer Performed an Infiltration Analysis?	Yes	yes/no
	9	Design Infiltration Rate Recommended by Geotechnical Engineer	0.250	in/hr
Result	10	Design Infiltration Rate Used To Determine Retention Requirements	0.250	in/hr
	11	Percent of Average Annual Runoff that Must be Retained within DMA	31.1%	percentage
	12	Fraction of DCV Requiring Retention	0.23	ratio
	13	Required Retention Volume	469	cubic-feet
No Warning Messages				

Automated Worksheet B.3: BMP Performance (V2.0)

Category	#	Description	<i>i</i>	<i>ii</i>	<i>iii</i>	<i>iv</i>	<i>v</i>	<i>vi</i>	Units
BMP Inputs	1	Drainage Basin ID or Name	1	-	-	-	-	-	sq-ft
	2	Design Infiltration Rate Recommended	0.510	-	-	-	-	-	in/hr
	3	Design Capture Volume Tributary to BMP	2,037	-	-	-	-	-	cubic-feet
	4	Is BMP Vegetated or Unvegetated?	Vegetated						unitless
	5	Is BMP Impermeably Lined or Unlined?	Unlined						unitless
	6	Does BMP Have an Underdrain?	No Underdrain						unitless
	7	Does BMP Utilize Standard or Specialized Media?	Standard						unitless
	8	Provided Surface Area	5,407						sq-ft
	9	Provided Surface Ponding Depth	36						inches
	10	Provided Soil Media Thickness	0						inches
	11	Provided Gravel Thickness (Total Thickness)	0						inches
	12	Underdrain Offset							inches
	13	Diameter of Underdrain or Hydromod Orifice (Select Smallest)	42.00						inches
	14	Specialized Soil Media Filtration Rate							in/hr
	15	Specialized Soil Media Pore Space for Retention							unitless
	16	Specialized Soil Media Pore Space for Biofiltration							unitless
	17	Specialized Gravel Media Pore Space							unitless
Retention Calculations	18	Volume Infiltrated Over 6 Hour Storm	1,379	0	0	0	0	0	cubic-feet
	19	Ponding Pore Space Available for Retention	1.00	1.00	1.00	1.00	1.00	1.00	unitless
	20	Soil Media Pore Space Available for Retention	0.25	0.05	0.05	0.05	0.05	0.05	unitless
	21	Gravel Pore Space Available for Retention (Above Underdrain)	0.40	0.40	0.40	0.40	0.40	0.40	unitless
	22	Gravel Pore Space Available for Retention (Below Underdrain)	0.40	0.40	0.40	0.40	0.40	0.40	unitless
	23	Effective Retention Depth	36.00	0.00	0.00	0.00	0.00	0.00	inches
	24	Fraction of DCV Retained (Independent of Drawdown Time)	8.64	0.00	0.00	0.00	0.00	0.00	ratio
	25	Calculated Retention Storage Drawdown Time	71	0	0	0	0	0	hours
	26	Efficacy of Retention Processes	#N/A	0.00	0.00	0.00	0.00	0.00	ratio
	27	Volume Retained by BMP (Considering Drawdown Time)	#N/A	0	0	0	0	0	cubic-feet
	28	Design Capture Volume Remaining for Biofiltration	#N/A	0	0	0	0	0	cubic-feet
Biofiltration Calculations	29	Max Hydromod Flow Rate through Underdrain	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	cfs
	30	Max Soil Filtration Rate Allowed by Underdrain Orifice	0.00	0.00	0.00	0.00	0.00	0.00	in/hr
	31	Soil Media Filtration Rate per Specifications	5.00	5.00	5.00	5.00	5.00	5.00	in/hr
	32	Soil Media Filtration Rate to be used for Sizing	0.00	0.00	0.00	0.00	0.00	0.00	in/hr
	33	Depth Biofiltered Over 6 Hour Storm	0.00	0.00	0.00	0.00	0.00	0.00	inches
	34	Ponding Pore Space Available for Biofiltration	0.00	0.00	0.00	0.00	0.00	0.00	unitless
	35	Soil Media Pore Space Available for Biofiltration	0.00	0.20	0.20	0.20	0.20	0.20	unitless
	36	Gravel Pore Space Available for Biofiltration (Above Underdrain)	0.00	0.40	0.40	0.40	0.40	0.40	unitless
	37	Effective Depth of Biofiltration Storage	0.00	0.00	0.00	0.00	0.00	0.00	inches
	38	Drawdown Time for Surface Ponding	71	0	0	0	0	0	hours
	39	Drawdown Time for Effective Biofiltration Depth	0	0	0	0	0	0	hours
	40	Total Depth Biofiltered	0.00	0.00	0.00	0.00	0.00	0.00	inches
	41	Option 1 - Biofilter 1.50 DCV: Target Volume	#N/A	0	0	0	0	0	cubic-feet
	42	Option 1 - Provided Biofiltration Volume	#N/A	0	0	0	0	0	cubic-feet
	43	Option 2 - Store 0.75 DCV: Target Volume	#N/A	0	0	0	0	0	cubic-feet
	44	Option 2 - Provided Storage Volume	#N/A	0	0	0	0	0	cubic-feet
	45	Portion of Biofiltration Performance Standard Satisfied	#N/A	0.00	0.00	0.00	0.00	0.00	ratio
Result	46	Do Site Design Elements and BMPs Satisfy Annual Retention Requirements?	#N/A	-	-	-	-	-	yes/no
	47	Overall Portion of Performance Standard Satisfied (BMP Efficacy Factor)	#N/A	0.00	0.00	0.00	0.00	0.00	ratio
	48	Deficit of Effectively Treated Stormwater	#N/A	n/a	n/a	n/a	n/a	n/a	cubic-feet

Attention!

-Vegetated BMPs with surface ponding drawdown times over 24 hours must be certified by a landscape architect or agronomist. All BMPs must have a surface ponding drawdown time of 96 hours or less.

7.5 Identification and Narrative of Receiving Water and Pollutants of Concern

- Complete this sub-attachment *only if flow-thru treatment BMPs are implemented onsite* in lieu of retention or biofiltration BMPs. Unless excepted because of a Prior Lawful Approval⁴, PDPs must also participate in an alternative compliance program⁵.

<p>A. General Description Describe flow path of storm water from the project site discharge location(s), through urban storm conveyance systems as applicable, to receiving creeks, rivers, and lagoons as applicable, and ultimate discharge to the Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable). No flow-thru, collected on site for infiltration</p>																																											
<p>B. Water Body Impairments and Priorities List any 303(d) impaired water bodies⁶ 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)/stressor(s) causing impairment, and identify any TMDLs and/or Highest Priority Pollutants from the WQIP for the impaired water bodies:</p> <table border="1"> <thead> <tr> <th>303(d) Impaired Water Body</th> <th>Pollutant(s)/Stressor(s)</th> <th>TMDLs / WQIP Highest Priority Pollutant</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			303(d) Impaired Water Body	Pollutant(s)/Stressor(s)	TMDLs / WQIP Highest Priority Pollutant																																						
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<p>C. Identification of Project Site Pollutants Identify pollutants expected from the project site based on all proposed use(s) of the site (see BMP Design Manual Appendix B.6).</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Not Applicable to the Project Site</th> <th>Anticipated from the Project Site</th> <th>Also a Receiving Water Pollutant of Concern</th> </tr> </thead> <tbody> <tr> <td>Sediment</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Nutrients</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Heavy Metals</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Organic Compounds</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Trash & Debris</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Oxygen Demanding Substances</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Oil & Grease</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Bacteria & Viruses</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Pesticides</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>				Pollutant	Not Applicable to the Project Site	Anticipated from the Project Site	Also a Receiving Water Pollutant of Concern	Sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Organic Compounds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash & Debris	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oxygen Demanding Substances	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil & Grease	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bacteria & Viruses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pesticides	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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⁴ See BMPDM Appendix L: Prior Lawful Approval Requirements and Guidance.

⁵ See SWQMP Attachment 12 (Alternative Compliance Projects) and BMPDM Appendix J (Offsite Alternative Compliance Requirements and Guidance).

⁶ The current list of Section 303(d) impaired water bodies can be found at:

https://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2014_2016.shtml



8.0 General Requirements

- Completion of this attachment is required for all PDPs subject to hydromodification management requirements (see PDP SWQMP Form Table 5). Do not submit this attachment if exempt from Hydromodification Management requirements. Document the PDP exemption in Attachment 9.
- Submit this cover page and all required Sub-attachments for all structural hydromodification management BMPs proposed for the project.
- Constructed features must fully satisfy the requirements described in applicable BMPDM sections and appendices, and any other guidance identified by the County.
- DMA Exhibits and Construction Plans: DMAs, features, and BMPs identified and described in this attachment must be shown on DMA Exhibits and all applicable construction plans submitted for the project. See Attachment 2 for additional instruction on exhibits and plans.
- Structural BMP Certification. All structural hydromodification management BMPs documented this attachment must be certified by a registered engineer in Attachment 7, Sub-attachment 7.1.
- Structural BMP Verification. BMP installation must be verified by the County at the completion of construction. Applicants must complete an Installation Verification Form (Attachment 10).

Sub-attachments (check all that are completed)
<input checked="" type="checkbox"/> 8.1: Flow Control Facility Design (required) ¹ Submit using <input checked="" type="checkbox"/> the Sub-attachment 8.1 cover sheet provided, or <input type="checkbox"/> as a separate stand-alone document labeled Sub-attachment 8.1.
<input checked="" type="checkbox"/> 8.2: Hydromodification Management Points of Compliance (required) Complete the table provided in Sub-attachment 8.2.
8.3: Geomorphic Assessment of Receiving Channels 1. Has a geomorphic assessment been performed for the receiving channel(s)? <input checked="" type="checkbox"/> No, the low flow threshold is 0.1Q2 (default low flow threshold) <input type="checkbox"/> Yes (provide the information below): Low flow threshold: <input type="checkbox"/> 0.1Q2 <input type="checkbox"/> 0.3Q2 <input type="checkbox"/> 0.5Q2 Title: Date: _____ Preparer: _____
Submit using <input type="checkbox"/> the Sub-attachment 8.3 cover sheet provided, or <input type="checkbox"/> as a separate stand-alone document labeled Sub-attachment 8.3.
<input type="checkbox"/> 8.4: Vector Control Plan (required if BMPs will not drain in less than 96 hours) <input type="checkbox"/> Included with this attachment <input checked="" type="checkbox"/> Not required

¹ Including Structural BMP Drawdown Calculations and Overflow Design Summary. See BMPDM Chapter 6 and Appendix G for additional design guidance.

8.1 Flow Control Facility Design

Insert Flow Control Facility Design behind this cover page or submit as a separate stand-alone document labeled Sub-attachment 8.1.

Flow control of the facility will be by way of surface sheet flow of storm water runoff that will be directed to one of multiple drainage inlets. These drainage inlets are connected to a drainage basin via PVC pipe where run-off will infiltrate into the existing ground.

Surface sheet flow is controlled and directed by design grades as depicted on the grading plan. Adequate grades are used to minimize ponding in pervious and impervious areas. Design grades in impervious areas are set as to adequately drain off run-off as to minimize ponding that could result in slipping of a pedestrian walking.

Sheet flow will be directed to drainage inlets that will collect and convey the runoff via PVC pipe to a drainage basin located on-site. Slopes of the PVC are set to adequately convey runoff from the drainage inlet to the drainage basin.

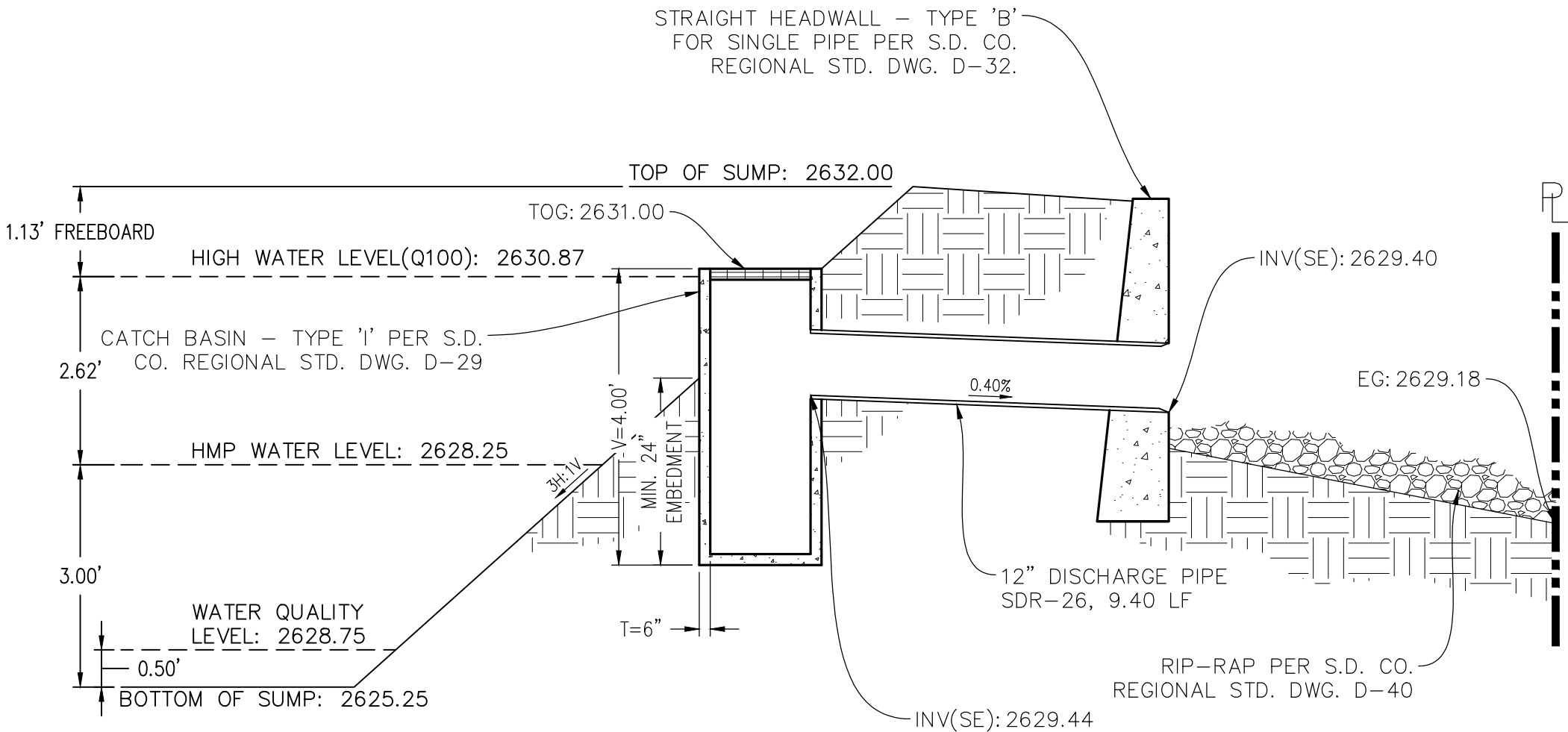
The drainage basin has been sized to contain the volume of the property site for a 100-year storm. Runoff that has collected in the drainage basin will then infiltrate into the existing ground and will empty in less than 96 hours as required at design capacity. An overflow discharge structure has been proposed for any runoff generated from a storm larger than a 100-year storm event will discharge onto Campo Road.

BMP Sizing Spreadsheet V3.0			
Project Name:	Campo Dollar General	Hydrologic Unit:	Tijuana
Project Applicant:	NNN Retail Development	Rain Gauge:	Lake Wohlford
Jurisdiction:	County of San Diego	Total Project Area:	71,874
Parcel (APN):	655-120-09-00	Low Flow Threshold:	0.1Q2
BMP Name:	Retention Basin	BMP Type:	Infiltration Facilities
BMP Native Soil Type:	A	BMP Infiltration Rate (in/hr):	0.5

Areas Draining to BMP						HMP Sizing Factors	Minimum BMP Size
DMA Name	Area (sf)	Pre Project Soil Type	Pre-Project Slope	Post Project Surface Type	Area Weighted Runoff Factor (Table G.2-1) ¹	Surface Area	Surface Area (SF)
DMA 1	15,357	A	Moderate	Mixed	0.5	0.085	679
DMA 2	1,551	A	Steep	Concrete	1.0	0.085	132
DMA 3	13,283	A	Steep	Concrete	1.0	0.085	1129
DMA 4	8,448	A	Moderate	Mixed	0.5	0.085	366
DMA 5	5,662	A	Steep	Concrete	1.0	0.085	481
DMA 6	356	A	Moderate	Landscape	0.1	0.085	3
DMA 7	2,069	A	Moderate	Mixed	0.9	0.085	153
DMA 8	9,466	A	Moderate	Landscape	0.1	0.085	80
DMA 9	5,407	A	Moderate	Mixed	0.1	0.085	46
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
BMP Tributary Area	61,599					Minimum BMP Size	3070
						Proposed BMP Size*	5407
						Surface Ponding Depth	36.00 in

* Assumes standard configuration

Notes:
 1. Runoff factors which are used for hydromodification management flow control (Table G.2-1) are different from the runoff factors used for pollutant control BMP sizing (Table B.1-1). Table references are taken from the San Diego Region Model BMP Design Manual, Describe the BMP's in sufficient detail in your PDP SWQMP to demonstrate the area, volume, and other criteria can be met within the constraints of the site.
 BMP's must be adapted and applied to the conditions specific to the development project such as unstable slopes or the lack of available head. Designated Staff have final review and approval authority over the project design.
 This BMP Sizing Spreadsheet has been updated in conformance with the San Diego Region Model BMP Design Manual, April 2018. For questions or concerns please contact the jurisdiction in which your project is located.



OVERFLOW DRAINAGE INLET AND DISCHARGE PIPE

NTS

8.2 Hydromodification Management Points of Compliance

- List and describe all points of compliance (POCs) for flow control for hydromodification management.
- For each POC, provide a POC identification name or number, and a receiving channel identification name or number correlating to the project's HMP Exhibit (see Attachment 2).

POC name or #	Channel name or #	POC Description
POC #1	N/a	Terrace Ditch at southwest corner of property to direct off-site flow from entering developed area and to continue to flow onto Campo Road
POC #2	N/a	Emergency outlet structure at southeast corner of property (southeast corner of retention basin) to direct flow/storm water runoff generated from a storm event greater than 100 year event.
POC #3	N/a	Terrace Ditch at northeast corner of property to direct off-site flow from entering developed area and to continue to flow off-site to the east/southeast.

8.3 Geomorphic Assessment of Receiving Water Channels

Insert Geomorphic Assessment behind this cover page or submit as a separate stand-alone document labeled Sub-attachment 8.3.

No Geomorphic Assessment has been performed or nor are there any receiving water channels arriving or leaving the property.

8.4 Vector Control Plan

Insert Vector Control Plan behind this cover page or submit as a separate stand-alone document labeled Sub-attachment 8.4.

Vector Control Plan is included behind this cover page.

VECTOR CONTROL PLAN

CAMPO DOLLAR GENERAL

PDS2019-LDGMJ-30250

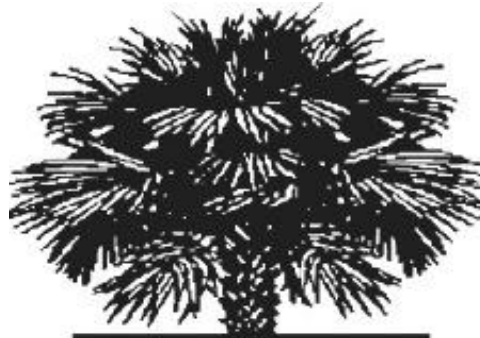
Campo Road and Buckman Springs Road

CAMPO, CA 91906

SAN DIEGO COUNTY

APN: 655-120-09

PREPARED BY:



Palmetto
Engineering
&
Land Surveying

4300 ASHE ROAD, SUITE 103
BAKERSFIELD, CALIFORNIA 93311
(661) 664-4806

July 2021

Project Description

This Vector Control Plan is being submitted in conjunction with the development of the proposed Dollar General, located northeast of the intersection of Campo Road and Buckman Springs Road in the Community of Campo, County of San Diego.

Description of the Facilities

All collected storm water runoff will be routed through the proposed drainage system to a retention basin located in the southwest corner of the property. The retention basin is sized to retain onsite the runoff volume generated from a 100-year 6-hour storm event for the areas. The runoff will infiltrate into the underlying soils of the basin. Any runoff generated from a storm larger than the 100-year storm event will be discharged off-site via an overflow discharge structure. The discharge structure will consist of a discharge drainage inlet (DDI) to serve as an overflow inlet for any runoff that will be discharged off-site. Runoff entering the DDI will be routed via a 12-inch PVC discharge pipe connecting the DDI to a straight concrete headwall. Once exiting, runoff will flow through energy dissipating riprap for approximately 10.0 feet at a slope of 2.0% prior to discharging onto Campo Road.

Goal of the Plan

The purpose of the report is to identify the best management practices that will be implemented on the project site to minimize potential mosquito breeding sources associated with the proposed biofiltration basin. Per the Stormwater Drainage Report, the retention basin drawdown is 64.7 hours, which is less than the maximum drawdown standard of 72 hours per the County of San Diego Watershed Protection, Stormwater Management, and Discharge Control Ordinance. The Vector Control Plan also affirms a commitment to the County of San Diego to control mosquito breeding as required by the State of California Health and Safety Code § 2060-2067.

Description of Water Management

Prevention of mosquito breeding will utilize best management practices as advised by the San Diego County Department of Environmental Health (DEH). These include the following:

- 1) Semi-Annual removal of basin emergent vegetation, or when recommended by the DEH San Diego County Vector Control Program.
- 2) An alternative to the basin clearing would be removal of swaths or patches of vegetation on a quarterly basis. No stand of cattails would be larger than 20 feet wide by 10 feet deep (200 sq.ft. surface area) and all cattail stands will be separated by 10 ft of non-vegetative water.

- 3) Standing water shall not have emergent vegetation, such as cattails, sedges, etc., in excess of 50% of the surface area.
- 4) Emergent vegetation will be controlled by hand labor, mechanical means or be frequent clear cutting. Herbicides may be used as needed to control regrowth. Clearing is intended to prevent habitation for mosquito larvae. Removal of the vegetation by hand will be the preferred method to reduce regrowth frequency and density.
- 5) Foot pathways will be maintained for surveillance and abatement methods. These will be a minimum of 5 feet wide to allow access to the water without disturbing the emergent vegetation.
- 6) Remove of trash and debris semiannually or as needed to prevent clogging the of outlet structure.
- 7) The drawdown time of the detention basin shall be monitored after each rain event 12 hours or longer. If the drawdown time exceeds 72 hours and mosquitoes are present, mosquito larvicide shall be applied by a certified professional.
- 8) The owners will educate themselves on the mosquito life cycle, potential breeding sources and the importance of managing mosquitoes.

Mosquito Inspection and Maintenance

The retention basin will be inspected monthly and after every storm event greater than or equal to 0.5-inch. If mosquitos are observed, inspection frequency will increase to after every 0.1-inch or greater storm event.

If mosquitos/larvae are observed, all standing water will be immediately removed by dispersing to nearby landscaping. If mosquitos persist following the removal of standing water, or if the retention basin does not meet the 96-hour drawdown criteria because the underlying native soils have been compacted or do not have the expecting infiltration capacity, the County shall be contacted to determine a solution. A Vector Management Plan approved by the County of San Diego Department of Environmental Health may be required.

Proper maintenance of the detention basin and best management practice implementation will be funded by the Owner.

Access for Vector Control

The Owner hereby by grants to the County of San Diego and any DEH authorized agent, ingress and egress for the purposes of vector control and public health related activities.

This includes the introduction of mosquito fish, placement of adult mosquito monitors or any other best management practice used by DEH.

Agreement

Print Name/Title:

Date

Print Name/Title:

Date



County of San Diego Stormwater Quality Management Plan (SWQMP)
Attachment 9: Management of Critical Coarse Sediment Yield Areas

9.0 General Requirements

- Complete the table below to indicate which compliance pathway was selected in PDP SWQMP Table 6. Include the corresponding sub-attachment with your SWQMP submittal. Other sub-attachments do not need to be included.
- See the BMPDM sections and appendices listed under “BMPDM Design Resources” for additional explanation of design requirements. Constructed features must fully satisfy the requirements described in these resources, and any other guidance identified by the County.
- **DMA Exhibits and Construction Plans:** CCSYAs and applicable BMPs identified and described in this attachment must be shown on DMA Exhibits and all applicable construction plans submitted for the project. See Attachment 2 for additional instruction on exhibits and plans.

Sub-attachments	BMPDM Design Resources
<input type="checkbox"/> 9.1: Documentation of Hydromodification Management Exemption¹	Section 1.6
<input checked="" type="checkbox"/> 9.2: Watershed Management Area Analysis (WMAA) Mapping¹	Appendix H.1.1.2
<input type="checkbox"/> 9.3: Resource Protection Ordinance (RPO) Methods	Appendix H.1.1.1
<input type="checkbox"/> 9.4: No Net Impact Analysis	Appendix H.4

¹ The San Diego County Regional comprehensive WMAA mapping data can be found on the Project Clean Water website here: http://www.projectcleanwater.org/download/wmaa_attc_data/

9.2 Watershed Management Area Analysis (WMAA) Mapping (BMPDM Appendix H.1.1.2)

Watershed Management Area Analysis (WMAA) mapping is a simple way to screen projects to determine the presence of onsite or offsite upstream Potential Critical Coarse Sediment Yield Areas (PCCSYAs). The San Diego County Regional WMAA mapping data can be found on the Project Clean Water website here: http://www.projectcleanwater.org/download/wmaa_attc_data/.³

- Based on the WMAA map and the proposed project design, demonstrate below that both of the following conditions apply to the PDP:
 - (a) Less than 5% of PCCSYAs will be impacted (built on or obstructed) by the PDP, and
 - (b) All upstream offsite PCCSYAs will be bypassed (see BMPDM Appendix H.3).

A. Mapping Results -- At a minimum, show: (1) the project footprint, (2) areas of proposed development, (3) impacted onsite PCCSYAs, (4) offsite tributary areas⁴, and (5) bypass of upstream offsite PCCSYAs.

1 – See attached Horizontal Control Plan

2- See attached Site Improvement Plan

3 – Based on WMAA Mapping data project location is not located in Potential Critical Coarse Sediment Yield Area, See attached Map







4 – None, refer to Civil Plans

5 - None

³ Applicants may refine initial mapping results using options identified in BMPDM Appendix H.1.2.

⁴ Tributary areas must be shown to demonstrate that upstream offsite PCCSYAs do not exist. If bypassing these areas, only the bypass should be shown.

Legend

-  American Medical Response
-  Campo Diner
-  Campo Dollar General - Project Area
-  Hwy 94 & Buckman Springs Rd
-  Project 19-015 Campo Dollar General
-  2015 Regional Potential CCSYA

Project 19-015 Campo Dollar General



B. Explanation -- Provide documentation as needed to demonstrate that (1) impacts to PCCSYAs are below 5%, and (2) upstream offsite PCCYSAs are effectively bypassed. Add pages as necessary.

9.3 Resource Protection Ordinance (RPO) Methods (BMPDM Appendix H.1.1.1)

- Either of two Resource Protection Ordinance (RPO) methods may also be used to demonstrate compliance with CCSYA requirements. Select either option and document the selection below:
 - RPO Scenario 1: PDP is subject to and in compliance with RPO requirements⁵**
 - **Select** if the project requires one or more discretionary permits;
 - **Demonstrate** that onsite AND upstream offsite CCSYAs will be avoided and/or bypassed.
 - RPO Scenario 2: PDP is entirely exempt/not subject to RPO requirements⁶**
 - **Select** if the project does not require discretionary permits;
 - **Demonstrate** that all upstream offsite CCSYAs will be bypassed⁷.

A. Mapping Results -- At a minimum, show as applicable: (1) the project footprint, (2) areas of proposed development, (3) locations of onsite and upstream offsite CCSYAs, and (4) bypass of all identified CCSYAs.

⁵ RPO applicability is normally confirmed during discretionary review. Check with your project manager if you're not sure of your status.

⁶ Does not include PDPs utilizing exemption(s) via RPO Section 86.604(e)(2)(cc) or 86.604(e)(3).

⁷ This scenario does not impose requirements for onsite CCSYAs.

B. Explanation -- Provide documentation as needed to demonstrate that (1) onsite CCSYAs are avoided and bypassed [if applicable], and (2) upstream offsite CCYSAs are effectively bypassed. Add pages as necessary.

9.4 No Net Impact Analysis (BMPDM Appendix H.4)

- When impacts to CCSYAs cannot be avoided or effectively bypassed, applicants must demonstrate that their project generates no net impact to the receiving water per the performance metrics identified in BMPDM Appendix H.4.
- Use the space below to document that the PDP will generate no net impact to any receiving water.

No Net Impact Analysis (add or attach pages as necessary)

CCSYA's will not be impacted as there are no CCSYA's within the project site.



County of San Diego
 Stormwater Quality Management Plan (SWQMP)
Attachment 10: Installation Verification Form for Priority Development Projects

This form must be accepted by the County prior to the release of construction permits or granting of occupancy for applicable portions of a Priority Development Project (PDP). Its purpose is to provide documentation of the final installation of permanent Best Management Practices (BMPs) used to satisfy Structural Performance Standards for the development project. Compliance with these standards reduces the discharge of pollutants and flows from the completed project site. Applicable standards may be satisfied using Structural BMPs (S-BMPs), Significant Site Design BMPs (SSD-BMPs), or both. Applicants are responsible for providing all requested information. Do not leave any fields blank; indicate N/A for any requested item that is not applicable.

PART 1 General Project and Applicant Information

Table 1: Project and Applicant Information

A. Project Summary Information		ID No. IVF-20__-__ To be assigned by DPW-WPP
Project Name	Campo Dollar General	
Record ID (e.g. grading/improvement plan number, building permit)	PDS2019-LDGRMJ-30250	
Project Address	31576 SR 94, Campo, CA 91906	
Assessor's Parcel Number(s) APN(s)	655-120-09	
Project Watershed (complete Hydrologic Unit, Area, and Subarea Name with Numeric Identifier)	N/A	
B. Owner Information		
Name	Gregory and Susan Parsons	
Address	2634 Rainbow Valley Blvd., Fallbrook, CA 92028	
Email Address	G62409@gmail.com	
Phone Number	(760) 522-1755	



****THIS PAGE IS FOR PARTIAL RECORD PLAN VERIFICATIONS ONLY ****

If this is a partial Installation Verification Form submittal, list ALL DMAs and BMPs for the Priority Development Project in **Table 2**. Provide acceptance information where applicable.

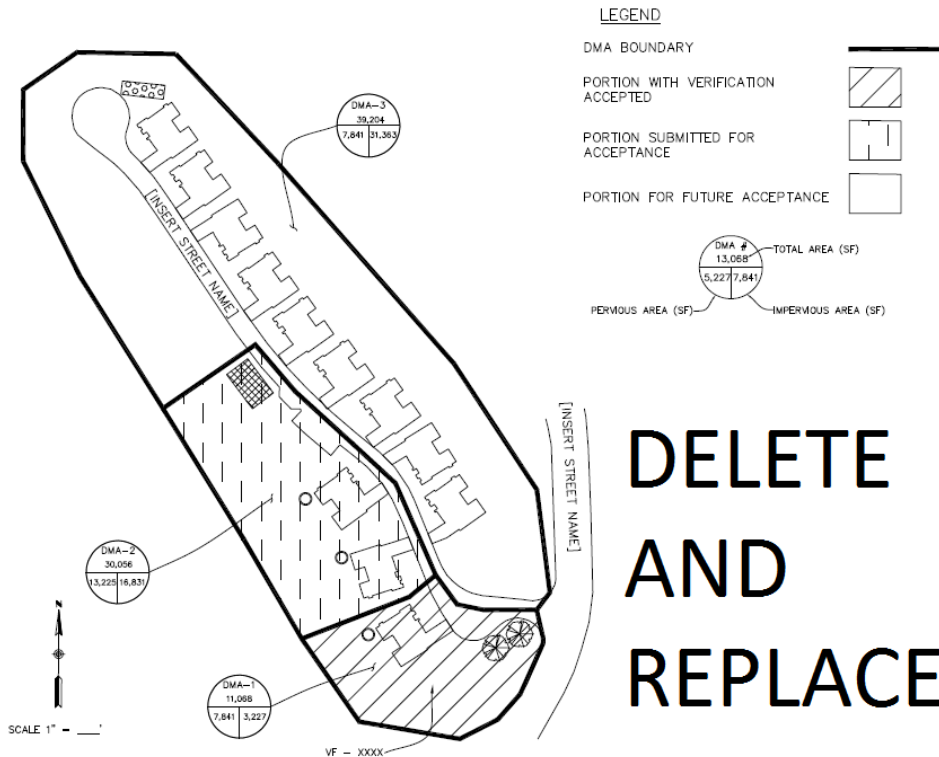
Table 2: Information for Partial IVF Submittals

A: DMA and BMP Information			
DMA #	Structural and Significant Site Design BMPs	WPP Acceptance Date	IVF ID No. (e.g. 2018-001)

B: DMA and BMP Map

Please attach a map showing (1) all DMAs for the project site, (2) the DMAs and/or lots accepted under previous Verification Forms, and (3) the locations of Structural BMPs and Significant Site Design BMPs previously accepted.

SAMPLE DMA MAP



**DELETE
AND
REPLACE**



County of San Diego
 Stormwater Quality Management Plan (SWQMP)
Attachment 10: Installation Verification Form for Priority Development Projects

PART 2 DMA and BMP Inventory Information

Use this table to document Structural BMPs (S-BMPs) and Significant Site Design BMPs (SSD-BMPs) for the PDP. All DMAs that are not self-mitigating or de minimis must have at least one Structural BMP or Significant Site Design BMP.

- In **Part A**, list all Structural BMPs (including both Pollutant Control and/or Hydromodification as applicable) by DMA.
- Complete **Part B** for all DMAs that contain only Significant Site Design BMPs. SSD-BMPs are Site Design BMPs (SD-BMPs) that are sized and constructed to satisfy Structural Performance Standards for a DMA.
- Documentation of SD-BMPs is not required in this table for any DMA that also contains S-BMPs.
- The information provided for each BMP in the table must match that provided in the Stormwater Quality Management Plan (SWQMP), construction plans, maintenance agreements, and other relevant project documentation.

Table 3: Required Information for Structural BMPs and Significant Site Design BMPs

DMA #	BMP Information			Maintenance Category	Maintenance Agreement or Maintenance Notification Recorded Doc. #	Construction Plan Sheet #	Landscape Plan # & Sheet # (For Vegetated BMPs Only)	FOR DPW-WPP USE ONLY <i>Reviewer concurs that the BMP(s) may be accepted into inventory (date and initial)</i>
	Quantity	Description/Type of Structural BMP	BMP ID #(s)					
Part A Structural BMPs (S-BMPs)								
INF #1	1	Infiltration Basin		Cat 1	~	3 and 4		
Add rows as needed								
Part B Significant Site Design BMPs (SSD-BMPs)								
		Choose an item.		---	---			
		Choose an item.		---	---			
		Choose an item.		---	---			
Add rows as needed								



PART 3 Required Attachments for All BMPs Listed in Table 3

For ALL projects, submit the following to the County inspector (check all that are attached):

- Photographs:** Labeled photographs illustrating proper construction of each S-BMP or SSD-BMP.
- Maintenance Agreements:** Copies of all approved and recorded Storm Water Maintenance Agreements (SWMAs) or Maintenance Notifications (MNs) for all S-BMPs.

Note: All BMPs proposed for County ownership will remain the responsibility of the owner listed on **Page 1** until a signed Letter of Acceptance of Completion is received by the DPW Watershed Protection Program.

For Grading and Improvement projects only, ALSO submit:

- Construction Plans:** An 11" X 17" copy of the most current applicable approved Construction Plan sheets:
 - Grading Plans, AND/OR
 - Improvement Plans, AND/OR
 - Precise Grading Plan(s) (only for residential subdivisions with tract homes), AND/OR
 - Other (Please specify) [Click here to enter text.](#)

Note: For each Construction Plan, the sheets submitted must incorporate all of the following:

- A BMP Table, AND
- A plan/cross-section of each verified as-built BMP, AND
- The location of each verified as-built BMP
- Landscape Plans:** An 11" X 17" copy of the most current applicable Landscape Plan sheets where the BMPs are required to be vegetated, including:
 - The Certification of Completion (Form 407), AND
 - The Certificate of Approval from PDS Landscape Architect

Note: For each Landscape Plan, the sheets submitted must show the location of each verified as-built BMP.

Required only for Verifications for Partial Record Plans

- If this is a partial record plan verification, please include the following:
 - A list of previously submitted Verification Forms (**Table 2, A**)
 - A map of DMAs and BMPs (**Table 2, B**)



PART 4 Preparer’s Certification

By signing below, I certify that the BMP(s) listed in Table 3 of this Verification Form have been constructed and all are in substantial conformance with the approved plans and applicable regulations. I understand the County reserves the right to inspect the above BMPs to verify compliance with the approved plans and Watershed Protection Ordinance (WPO). Should it be determined that the BMPs were not constructed to plan or code, corrective actions may be necessary before permits can be closed.

Note: Structural BMPs (Table 3, Part A) must be certified by a licensed professional engineer.

Please sign and, if applicable, provide your seal below.

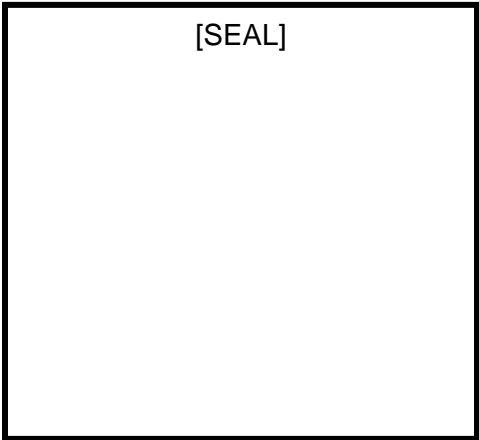
Preparer’s Printed Name:

Gregory O. Black

Email: goblack@palmels.com

Phone Number: (661)664-4806

Preparer's Signed Name:



Date: March 30, 2021



County of San Diego
 Stormwater Quality Management Plan (SWQMP)
Attachment 10: Installation Verification Form for Priority Development Projects

COUNTY - OFFICIAL USE ONLY:

For County Inspectors

County Department: _____

Date verification received from EOW: _____

By signing below, County Inspector concurs that every noted BMP has been installed per plan.

Inspector Name: _____

Inspector's Signature: _____ Date: _____

For Building Division Only

Inspection Supervisor Name: _____

Inspector Supervisor's Signature: _____ Date: _____

PCDI & Building, along with the rest of this package, please provide to DPW WPP:

- A copy of the final accepted SWQMP and any accepted addendum

For Watershed Protection Program Only

Date Received: _____

WPP Reviewer: _____

WPP Reviewer concurs that the BMPs accepted in **Part 2** above may be entered into inventory.

WPP Reviewer's Signature: _____ Date: _____



11.0 Cover Sheet and General Requirements

- All Structural BMPs must have a plan and mechanism to ensure on-going maintenance. Use the table below to document the types of agreements to be submitted for the PDP and submit them under cover of this sheet.
- See BMPDM Section 7.3 for a description of maintenance categories and responsibilities. Note that since Category 3 and 4 BMPs are County-maintained, they do not require maintenance agreements.

a. Applicability of Maintenance Agreements

Check the boxes below to indicate which types of agreements are included with this attachment.

- Maintenance Notification (Category 1 BMPs)
 - Exhibit A: Project Site Vicinity; Project Site Map; and a map for each BMP and its Drainage Management Area
 - Exhibit B: BMP Maintenance Plan (see below)
- Stormwater Maintenance Agreement (Category 2 BMPs)
 - Exhibit A: Legal Description of Property
 - Exhibit B: BMP Maintenance Plan (see below)
 - Exhibit C: Project Site Vicinity Map

Maintenance agreement templates and instructions are provided on the County’s website:

www.sandiegocounty.gov/stormwater under the Development Resources tab.

PDP applicants contact County staff to ensure they have the most current forms.

b. Maintenance Plan Requirements

Use this checklist to confirm that each maintenance plan includes the following that as applicable.

- Specific **maintenance indicators and actions** for proposed structural BMP(s). These must be based on based on maintenance indicators presented in BMP Design Fact Sheets in Appendix E and enhanced to reflect actual proposed components of the structural BMP(s).
- Access** to inspect and perform maintenance on the structural BMP(s).
- Features to **facilitate inspection** (e.g., observation ports, cleanouts, silt posts, or other features that allow the inspector to view necessary components of the structural BMP and compare to maintenance thresholds).
- Manufacturer and part number for **proprietary parts** of structural BMP(s) when applicable.
- Maintenance thresholds** specific to the structural BMP(s), with a location-specific frame of reference (e.g., level of accumulated materials that triggers removal of the materials, to be identified based on viewing marks on silt posts or measured with a survey rod with respect to a fixed benchmark within the BMP).
- Recommended **equipment** to perform maintenance.
- When applicable, necessary special **training or certification** requirements for inspection and maintenance personnel such as confined space entry or hazardous waste management.

RECORDING REQUESTED BY:

WHEN RECORDED MAIL TO:

(property owner)

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAINTENANCE NOTIFICATION AGREEMENT FOR CATEGORY 1 STORMWATER STRUCTURAL BMPs

This Maintenance Notification Agreement rescinds and replaces Doc# _____

THIS AGREEMENT is made on the sixth day of July, 202021.
NNN Retail Development, the Owner(s) of the hereinafter described real property:
Address 31576 SR-94, Campo, California Post Office Box _____ Zip Code 91906.
Assessor Parcel No.(s) 655-120-09-00

List each Structural Best Management Practice (BMP) for the property as follows: BMP ID, Type, Permit #, Sheet #.
Retention Basin, BMP ID#1, Infiltration Type, Permit# PDS2019-LDGRMJ-30250, Sheet 4 and 17

Attach BMP sheets and details as Exhibit A.

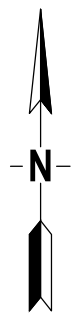
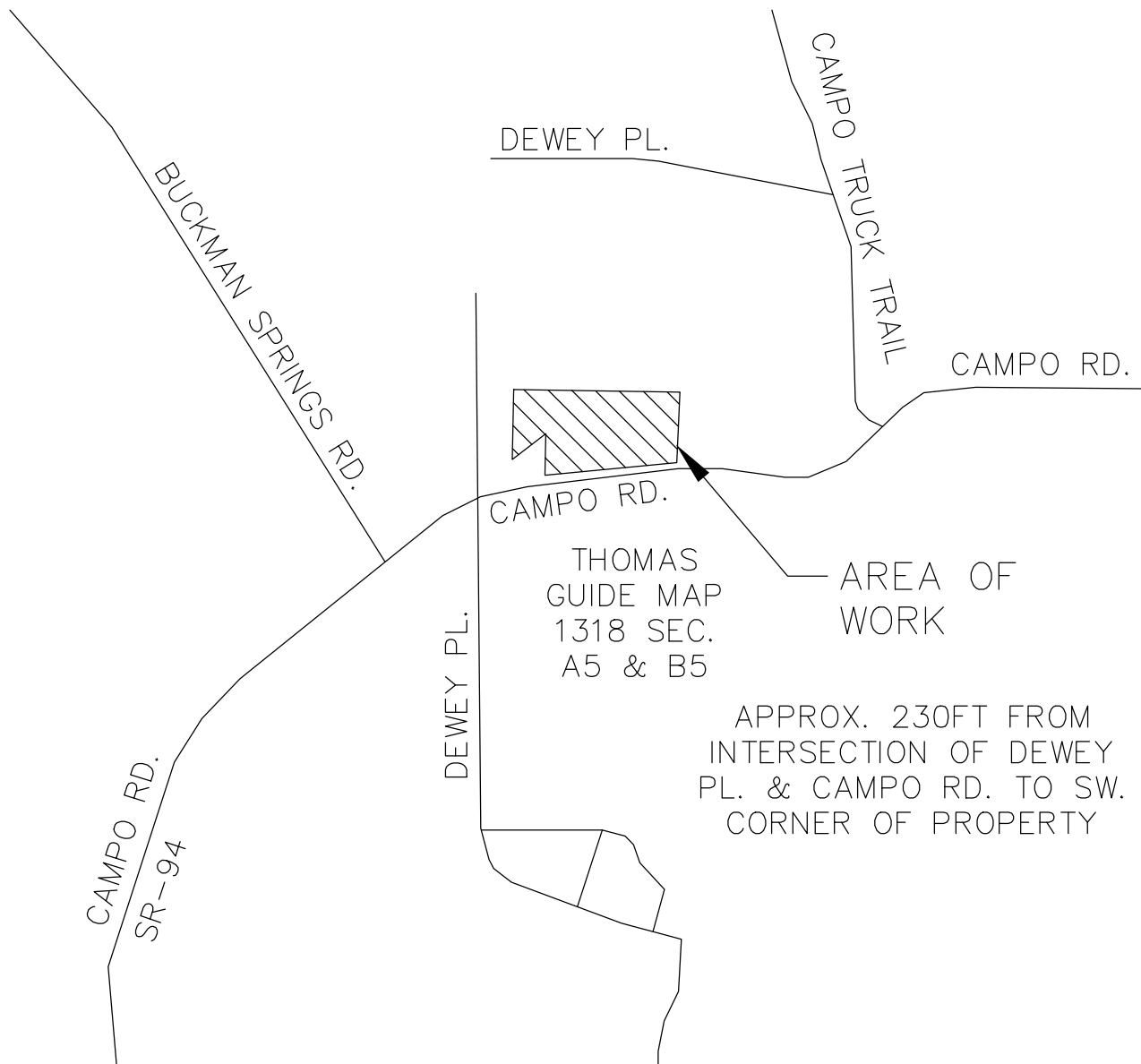
Owner(s) of the above property acknowledge the existence of the stormwater Structural BMP(s) on the said property. Perpetual maintenance of the Structural BMP(s) is the requirement of the State NPDES Permit, Order No. R9-2013-0001 and subsequent amendments, Section E.3.e. and the County of San Diego Watershed Protection Ordinance (WPO) Ordinance No. 10410 Section 67.812 through Section 67.814, and County BMP Design Manual Chapters 7 & 8. In consideration of the requirement to construct and maintain Structural BMP(s), as conditioned by Discretionary Permit, Grading Permit, and/or Building Permit (as may be applicable), I/we hereby covenant and agree that:

1. I/We are the owner(s) of the existing (or to be constructed concurrently) premises located on the above described property.
2. I/We shall take the responsibility for the perpetual maintenance of the Structural BMP(s) as listed above in accordance with the maintenance plan(s) attached in *Exhibit B* and in compliance with County's self-inspection reporting and verification for as long as I/we have ownership of said property(ies).
3. I/We shall cooperate with and allow the County staff to come onto said property(ies) and perform inspection duties as prescribed by local and state regulators.
4. I/We shall inform future buyer(s) or successors of said property(ies) of the existence and perpetual maintenance requirement responsibilities for Structural BMP(s) as listed above and to ensure that such responsibility shall transfer to the future owner(s).
5. I/We will abide by all the requirements and standards of Section 67.812 through Section 67.814 of the WPO (or renumbering thereof) as it exists on the date of this Agreement, and which hereby is incorporated herein by reference.

This Agreement shall run with the land. If the subject property is conveyed to any other person, firm, or corporation, the instrument that conveys title or any interest in or to said property, or any portion thereof, shall contain a provision transferring maintenance responsibility for Structural BMP(s) to the successive owner according to the terms of this Agreement. Any violation of this Agreement is grounds for the County to impose penalties upon the property owner as prescribed in County Code of Regulatory Ordinances, Title 1, Division 8, Chapter 1 Administrative Citations §§18.101-18.116.

Owner Signature(s)

Print Owner Name(s) and Title

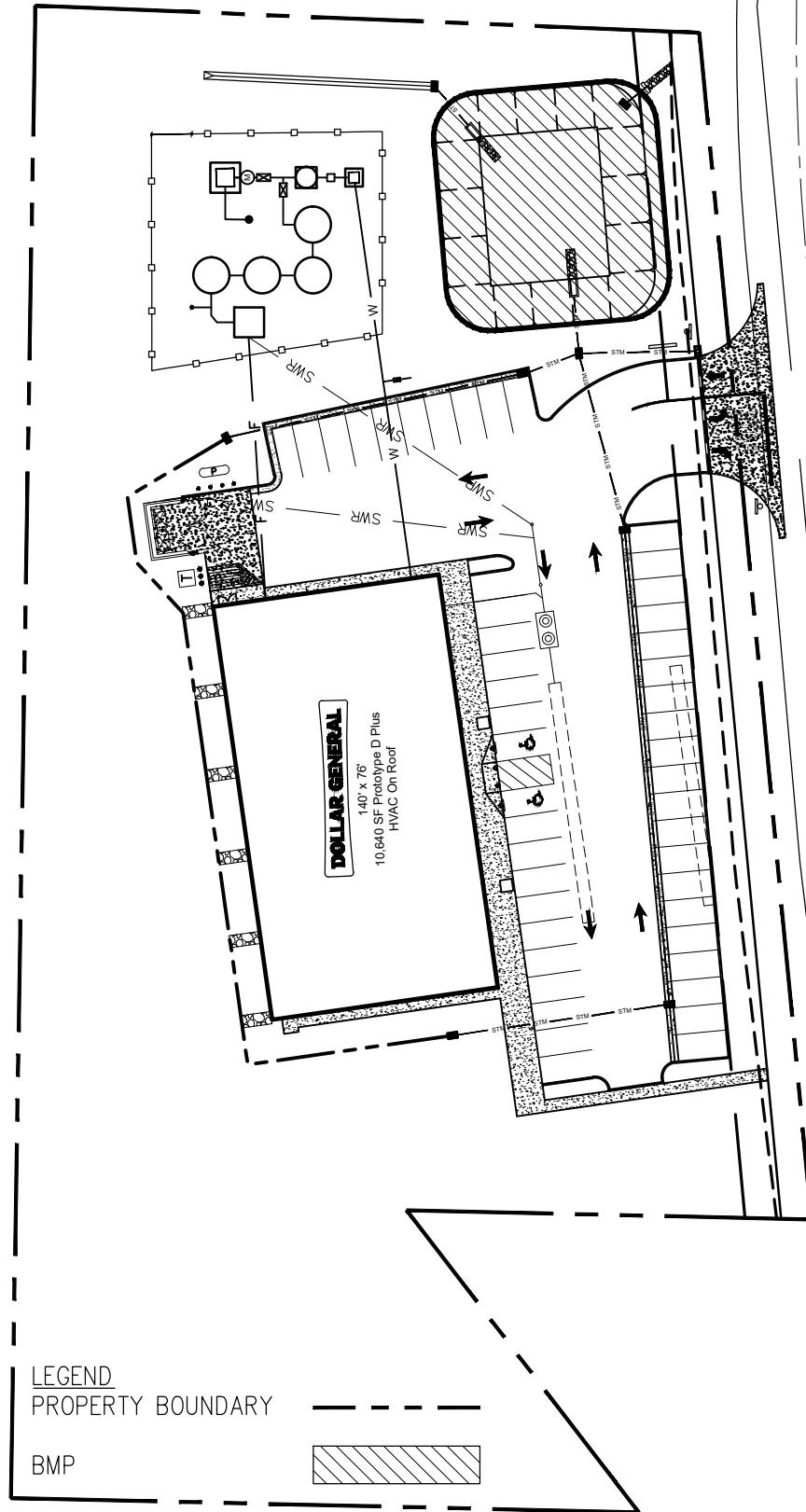


VICINITY MAP

N.T.S.

DATE: 3/30/2021

EXHIBIT - A
 NNN RETAIL DEVELOPMENT
 CAMPO DOLLAR GENERAL
 STORM WATER MAINTENANCE EXHIBIT



SCALE: 1"=60'

DATE: 3/30/2021

SITE MAP
 NNN RETAIL DEVELOPMENT
 CAMPO DOLLAR GENERAL
 STORM WATER MAINTENANCE EXHIBIT

