

**EAST COUNTY SOIL CONSULTATION
AND ENGINEERING, INC.
10925 HARTLEY ROAD, SUITE "T"
SANTEE, CALIFORNIA 92071
(619) 258-7901
Fax 258-7902**

Matt Hopkins
7696 Eagle Ridge Court
San Diego, California 92119

July 2, 2020
Project No. 18-1254B3

Subject: Report of Field Density Tests
Proposed Single-Family Residence
Via Asoleado, APN 520-240-20, Alpine Area
County of San Diego, California 91901

Reference: "Limited Geotechnical Investigation, Proposed Single-Family Residence, Via Asoleado, APN 520-240-20, Alpine Area, County of San Diego, California 91901", Project No. 18-1254B3, Prepared by East County Soil Consultation & Engineering Inc., Dated January 21, 2019.

Dear Mr. Hopkins:

This is to present the results of field density tests performed on the building pad for the proposed single-family residence at the subject site.

In accordance with your request, in-place field density tests were performed in accordance with ASTM D1556 (Sand Cone Method). Grading was conducted between March 11 and May 10 under the observation and testing of a representative of East County Soil Consultation & Engineering Inc.

Following clearing and grubbing, i.e. the removal of vegetation and deleterious materials, subgrade soils were overexcavated to a minimum depth of approximately 3 feet below existing grade and at least 5 feet beyond the proposed perimeter footings. The bottom of the excavation was scarified to a depth of approximately 6 inches, moisture-conditioned and compacted.

On-site fill soils consisting of silty sand were placed in thin lifts, moisture- conditioned around optimum and compacted in excess of 90 percent relative compaction. Compaction was achieved with the use of a Caterpillar 980 rubber-tire loader.

The results of the field density tests are presented on Page T-1 under "Table of Test Results". The laboratory determinations of the maximum dry densities and optimum moisture contents of the fill soils are set forth on Page L-1 under "Laboratory Test Results". The approximate test locations are shown on Plate No. 1.

 *Mitchell Byrd* 06/06/24

 *Sasha Byrd* 06/05/24

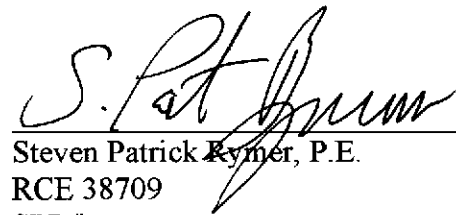
HOPKINS PROJECT No. 18-1254B3

Based on our field observations and density test results, it is our opinion that the grading operation for the proposed single-family residence was performed in accordance with the referenced geotechnical report and local grading ordinances.

If we can be of further assistance, please do not hesitate to contact our office.

Pages T-1, L-1 and Plate No. 1 are parts of this report.

Respectfully Submitted,


Steven Patrick Rymer, P.E.
RCE 38709
SPR/jm



HOPKINS PROJECT No. 18-1254B3

PAGE T-1

**TABLE OF TEST RESULTS
ASTM D1556**

TEST NO.	SOIL TYPE	DEPTH OF FILL IN FEET	FIELD MOISTURE % DRY WT.	DRY DENSITY P.C.F.	MAXIMUM DRY DENSITY	PERCENT COMPACTION	REMARKS AND LOCATION
					P.C.F.		
1	1	2	12.5	123.2	127.0	97	
2	1	2	12.7	124.5	127.0	98	
3	2	4	11.1	128.4	133.0	97	
4	1	4	12.1	121.9	127.0	96	
5	2	6	10.1	127.4	133.0	96	
6	1	6	12.3	120.5	127.0	95	
7	2	8	9.9	131.0	133.0	99	
8	2	8	11.5	127.9	133.0	96	
9	2	10	9.2	123.1	133.0	93	
10	1	2	11.5	120.8	127.0	95	
11	1	4	12.4	119.3	127.0	94	
12	2	12	10.2	125.2	133.0	94	
13	2	12	9.9	124.4	133.0	94	
14	2	6	10.4	126.9	133.0	95	
15	1	2	11.4	121.5	127.0	96	
16	2	8	8.9	123.3	133.0	93	
17	2	10	9.8	127.6	133.0	96	
18	2	8	8.2	123.9	133.0	93	
19	2	2	9.6	129.8	133.0	98	
20	2	2	11.5	125.0	133.0	94	
21	2	4	8.4	126.6	133.0	95	
22	1	6	9.8	120.8	127.0	95	
23	2	6	9.6	123.1	133.0	93	
24	2	8	10.2	124.3	133.0	93	
25	2	8	8.1	125.7	133.0	95	
26	2	10	10.2	130.9	133.0	98	

HOPKINS PROJECT No. 18-1254B3

PAGE T-1 (Continued)

**TABLE OF TEST RESULTS
ASTM D1556**

TEST NO.	SOIL TYPE	DEPTH	FIELD	DRY	MAXIMUM DRY	PERCENT COMPACTION	REMARKS AND LOCATION
		OF FILL IN FEET	MOISTURE %DRY WT.	DENSITY P.C.F.	DENSITY P.C.F		
27	2	12	9.8	128.1	133.0	96	
28	2	13FG	8.0	124.9	133.0	94	
29	2	14FG	8.3	126.9	133.0	95	
30	2	14FG	8.6	128.3	133.0	96	
31	2	2	9.3	125.9	133.0	95	
32	2	2	10.1	129.5	133.0	97	
33	2	3FG	8.4	128.2	133.0	96	
34	2	3FG	8.1	126.7	133.0	95	

Authentisign
MB

Authentisign
JB

FG=FINISH GRADE TESTS

PAGE L-1
LABORATORY TEST RESULTS

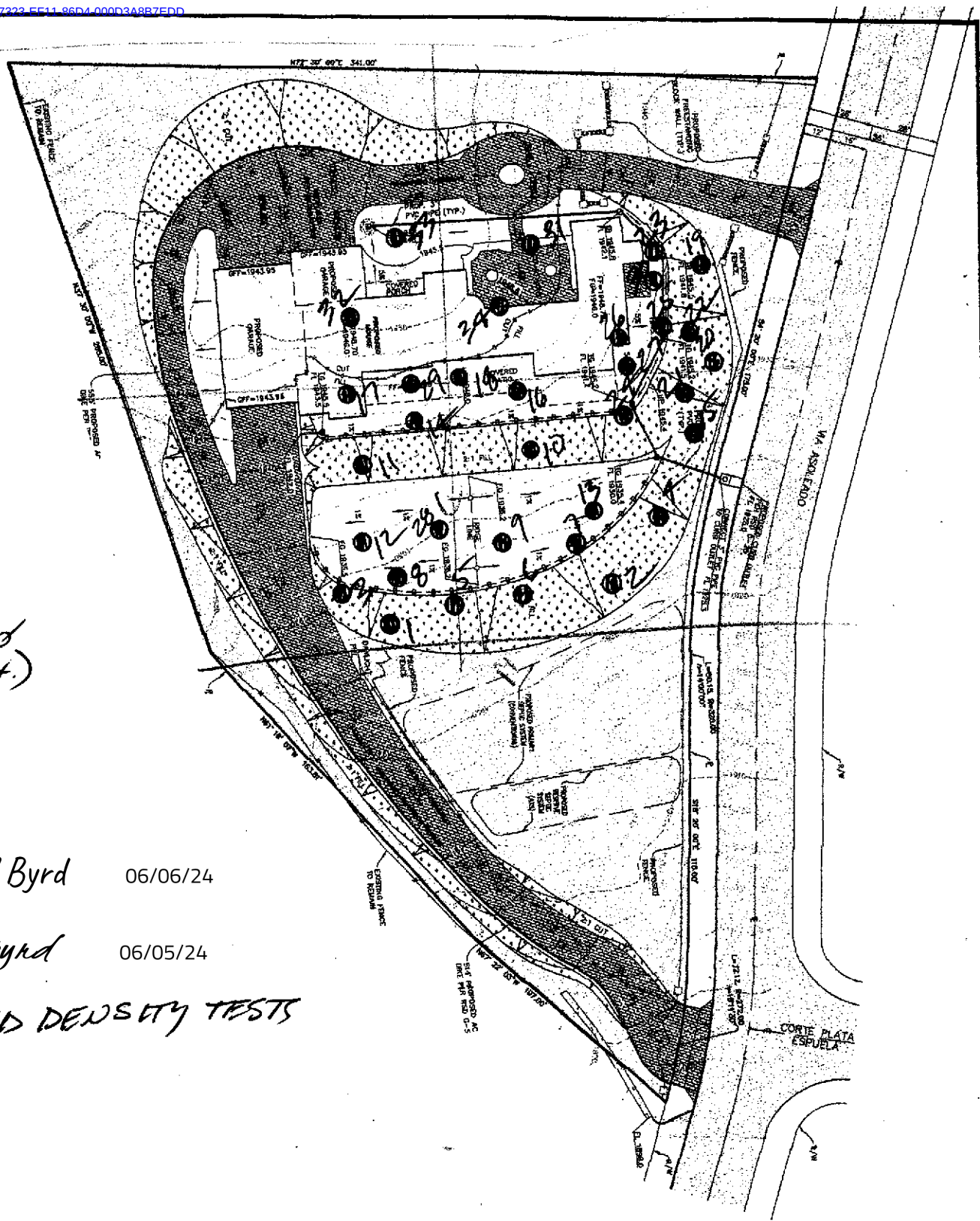
MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT

The maximum dry densities and optimum moisture contents of the fill materials as determined by ASTM D1557, Procedures A and B which use 25 blows of a 10-pound slide hammer falling from a height of 18 inches on each of 5 equal layers in a 4-inch diameter 1/30 cubic foot compaction cylinder and Procedure C which uses 56 blows of a 10-pound slide hammer falling from a height of 18 inches on each of 5 equal layers in a 6-inch diameter 1/13.3 cubic foot compaction cylinder are presented as follows:

SOIL TYPE/ PROCEDURE	DESCRIPTION	MAXIMUM DRY DENSITY LB/ CU. FT.	OPTIMUM MOISTURE CONTENT % DRY WT.
1/A	REDDISH BROWN, SILTY, FINE TO MEDIUM GRAINED SAND	127.0	10.5
2/A	GRAY BROWN, SILTY, FINE TO COARSE GRAINED SAND	133.0	8.5

Authentisign
MB

Authentisign
JB



1"=60'
(APPROX.)

Authentisign
Mitchell Byrd 06/06/24

Authentisign
Sasha Byrd 06/05/24

● FIELD DENSITY TESTS

EAST COUNTY SOIL CONSULTATION
& ENGINEERING, INC.
10925 HARTLEY RD., SUITE I, SANTEE, CA 92071
(619) 258-7901 Fax (619) 258-7902

HOPKINS PROJECT

LOCATION OF FIELD DENSITY TESTS	18-1254-B3	✓ 7.3.20
	PLATE #1	



Authentisign
Mitchell Byrd

06/06/24

Authentisign
Sasha Byrd

06/05/24

COUNTY OF SAN DIEGO • DEPARTMENT OF PLANNING AND LAND USE
BUILDING DIVISION

MINOR GRADING CERTIFICATION FORM

Project Location Via Asoleado Name of Permittee Hopkins
APN 520-240-20
Alpine, California 91901 Grading Permit No. _____

This report form for a "minor" grading project is to be completed and signed by the Registered Civil Engineer who has been designated on the Grading Plan and permit as the Engineer who will furnish the compaction report for work authorized by a grading permit issued by the Department of Planning and Land Use.

The intent of the format is to provide information to the Department of Planning and Land Use as to grading compliance with the approved Grading Plan and Permit. Where the questions below refer to location, configuration or quantity of cut and/or areas, it is understood that your response will not normally be based on an actual land survey or detailed earthwork quantity calculations. It should be noted, however, that the Department is particularly concerned where there are possible infractions with respect to over-steepened slopes, encroachments of required setbacks, uncompacted fills placed, or where the quantity of fill placed differs substantially from that authorized.

The Department of Planning and Land Use requires that all fills authorized by a Grading Permit be compacted to a minimum of 90% of maximum density with the exception that not more than 12" of uncompacted and untested fills may be dispersed over the land parcel. The need to compact all fills that are beyond the present limits of the present proposed construction insure that future proposed construction of room additions or swimming pools or similar structures will not require uncompacted fills be removed or recompacted, or that extensive foundation work be installed.

Compaction reports will not be accepted unless this form is completed and signed by the registered design professional.

IF THE ANSWERS TO ANY OF THESE QUESTIONS IS NO THERE MAY BE A VIOLATION OF THE COUNTY GRADING ORDINANCE.

A. COMPATIBILITY WITH GRADING PLAN AND PERMIT

1. Was the compacted fill placed only in the approximate locations designated on the grading plan as areas to filled? YES ☒ NO ☐
2. Did the quantity of fill material placed conform to the grading plan? YES ☒ NO ☐
3. Did the toe of fill or the top of cut meet the prescribed property line setback (1.5' for fill; 3.0' for cuts)? YES ☒ NO ☐
4. Were the finished fill slopes equal to or less than 2 horizontal to 1 vertical? YES ☒ NO ☐
5. If the fill material was obtained by cuts on the site, were the cuts made in the proper location and to the proper slope approximately as shown on the approved grading plan? YES ☒ NO ☐
6. Were brow ditches constructed approximately as shown on the grading plan? YES ☒ NO ☐

B. LOCATION AND AMOUNT OF COMPACTION TESTS

1. Have you attached a sketch and data showing the location and relative elevation for all compaction tests? YES ☒ NO ☐
2. Was a compaction test made so that there is at least one test in each 2' thick lens of compacted material? YES ☒ NO ☐
3. As indicated by inspections, observations and compaction test results, was the fill, excluding the top 1.0', compacted to at least 90% of maximum dry density? YES ☒ NO ☐

5201 RUFFIN ROAD, SUITE B, SAN DIEGO, CA 92123-1666 • (858) 565-5920 • (888) 336-7
 200 EAST MAIN ST.- SIXTH FLOOR, EL CAJON, CA 92020-3912 • (619) 441-4030
 338 VIA VERA CRUZ - SUITE 201, SAN MARCOS, CA 92069-2620 • (760) 471-0730

C. QUALITY OF FILL COMPACTION OPERATION

1. Was the area to receive fill properly prepared in terms of brush removal, benching, wetting, removal of noncompacted fill or debris and related items? YES ☒ NO ☐
2. Was all detrimentally expansive soil placed in the fill at 3' or more below finish grade? YES ☐ NO ☐
3. Have you attached a copy of the compaction curve showing the relationship between optimum moisture content and maximum density? YES ☒ NO ☐
4. Was all material used as fill (earth, rocks, gravel) smaller than 12" in size? YES ☒ NO ☐
5. Are all areas of the fill suitable for support of structures? YES ☒ NO ☐
6. Were all existing fills on the site recompacted in accordance with the provisions of the grading ordinance? YES ☒ NO ☐

D. STATISTICAL DATA

1. Dates the grading work was performed: March 11 and May 10, 2020
2. Dates your representative was on site and number of hours on site for each date, and name of representative:
AVAILABLE UPON REQUEST

E. AS-BUILT DATA

1. If the fill placement was not in accordance with the approved grading plan, did you notify the permittee to obtain approval for deviation from the plan before proceeding with additional fill placement? YES ☐ NO ☒
2. If the approved grading plan does not reflect the actual location, depth and type of fill, have you submitted for review and approval an as-built plan? YES ☐ NO ☒

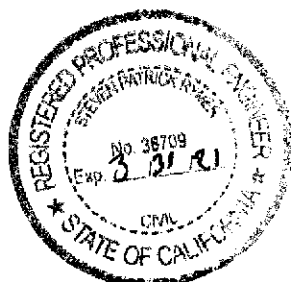
F. STORMWATER PROTECTION REQUIREMENTS

1. Have erosion control BMP's been placed in compliance with minimum County standards? YES ☒ NO ☐
2. Have sediment control BMP's been placed in compliance with minimum County standards? YES ☒ NO ☐
3. Is the site access road stabilized? YES ☒ NO ☐
4. Are the disturbed area perimeter barriers in place? YES ☒ NO ☐

REMARKS:

CERTIFICATION

I hereby certify, under penalty of perjury, that the information provided in this certification is true to the best of my knowledge and belief.



Signature S. Riles Date 7/4/20
(To be signed and dated by a Registered Civil Engineer)

Registration or Certification Number _____

Address _____

Telephone Number _____

TOTAL PAGES 8

**EAST COUNTY SOIL CONSULTATION
AND ENGINEERING, INC.
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SANTEE, CALIFORNIA 92071
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BUYER x _____

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Matt Hopkins
7696 Eagle Ridge Court
San Diego, California 92119

July 2, 2020
Project No. 18-1254B3

Subject: Report of Field Density Tests
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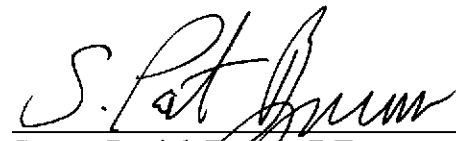
HOPKINS PROJECT No. 18-1254B3

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If we can be of further assistance, please do not hesitate to contact our office.

Pages T-1, L-1 and Plate No. 1 are parts of this report.

Respectfully Submitted,



Steven Patrick Rymer, P.E.
RCE 38709
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HOPKINS PROJECT No. 18-1254B3

PAGE T-1

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ASTM D1556**

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HOPKINS PROJECT No. 18-1254B3

PAGE T-1 (Continued)

**TABLE OF TEST RESULTS
ASTM D1556**

TEST	SOIL	DEPTH OF FILL	FIELD MOISTURE	DRY DENSITY	MAXIMU M DRY	PERCENT	<u>REMARKS AND</u>
					DENSITY		
<u>NO.</u>	<u>TYPE</u>	<u>IN FEET</u>	<u>%DRY WT.</u>	<u>P.C.F.</u>	<u>P.C.F</u>	<u>COMPACTION</u>	<u>LOCATION</u>
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FG=FINISH GRADE TESTS

PAGE L-1
LABORATORY TEST RESULTS

MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT

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SOIL TYPE/ PROCEDURE	DESCRIPTION	MAXIMUM DRY DENSITY LB/ CU. FT.	OPTIMUM MOISTURE CONTENT % DRY WT.
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2/A	GRAY BROWN, SILTY, FINE TO COARSE GRAINED SAND	133.0	8.5



**COUNTY OF SAN DIEGO • DEPARTMENT OF PLANNING AND LAND USE
BUILDING DIVISION**

MINOR GRADING CERTIFICATION FORM

Project Location Via Asoleado **Name of Permittee** Hopkins
APN 520-240-20 **Grading Permit No.** _____
Alpine, California 91901

This report form for a "minor" grading project is to be completed and signed by the Registered Civil Engineer who has been designated on the Grading Plan and permit as the Engineer who will furnish the compaction report for work authorized by a grading permit issued by the Department of Planning and Land Use.

The intent of the format is to provide information to the Department of Planning and Land Use as to grading compliance with the approved Grading Plan and Permit. Where the questions below refer to location, configuration or quantity of cut and/or areas, it is understood that your response will not normally be based on an actual land survey or detailed earthwork quantity calculations. It should be noted, however, that the Department is particularly concerned where there are possible infractions with respect to over-steepened slopes, encroachments of required setbacks, uncompacted fills placed, or where the quantity of fill placed differs substantially from that authorized.

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Compaction reports will not be accepted unless this form is completed and signed by the registered design professional.

IF THE ANSWERS TO ANY OF THESE QUESTIONS IS NO THERE MAY BE A VIOLATION OF THE COUNTY GRADING ORDINANCE.

A. COMPATIBILITY WITH GRADING PLAN AND PERMIT

1. Was the compacted fill placed only in the approximate locations designated on the grading plan as areas to be filled? YES ☒ NO ☐
2. Did the quantity of fill material placed conform to the grading plan? YES ☒ NO ☐
3. Did the toe of fill or the top of cut meet the prescribed property line setback (1.5' for fill; 3.0' for cuts)? YES ☒ NO ☐
4. Were the finished fill slopes equal to or less than 2 horizontal to 1 vertical? YES ☒ NO ☐
5. If the fill material was obtained by cuts on the site, were the cuts made in the proper location and to the proper slope approximately as shown on the approved grading plan? YES ☒ NO ☐
6. Were brow ditches constructed approximately as shown on the grading plan? YES ☒ NO ☐

B. LOCATION AND AMOUNT OF COMPACTION TESTS

1. Have you attached a sketch and data showing the location and relative elevation for all compaction tests? YES ☒ NO ☐
2. Was a compaction test made so that there is at least one test in each 2' thick lens of compacted material? YES ☒ NO ☐
3. As indicated by inspections, observations and compaction test results, was the fill, excluding the top 1.0', compacted to at least 90% of maximum dry density? YES ☒ NO ☐

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 338 VIA VERA CRUZ - SUITE 201, SAN MARCOS, CA 92069-2620 • (760) 471-0730

C. QUALITY OF FILL COMPACTION OPERATION

1. Was the area to receive fill properly prepared in terms of brush removal, benching, wetting, removal of noncompacted fill or debris and related items? YES ☒ NO ☐
2. Was all detrimentally expansive soil placed in the fill at 3' or more below finish grade? YES ☐ NO ☐
3. Have you attached a copy of the compaction curve showing the relationship between optimum moisture content and maximum density? YES ☒ NO ☐
4. Was all material used as fill (earth, rocks, gravel) smaller than 12" in size? YES ☒ NO ☐
5. Are all areas of the fill suitable for support of structures? YES ☒ NO ☐
6. Were all existing fills on the site recompactd in accordance with the provisions of the grading ordinance? YES ☒ NO ☐

D. STATISTICAL DATA

1. Dates the grading work was performed: March 11 and May 10, 2020
2. Dates your representative was on site and number of hours on site for each date, and name of representative:
AVAILABLE UPON REQUEST

E. AS-BUILT DATA

1. If the fill placement was not in accordance with the approved grading plan, did you notify the permittee to obtain approval for deviation from the plan before proceeding with additional fill placement? YES ☐ NO ☒
2. If the approved grading plan does not reflect the actual location, depth and type of fill, have you submitted for review and approval an as-built plan? YES ☐ NO ☒

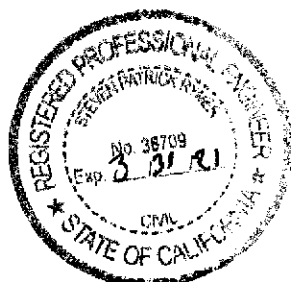
F. STORMWATER PROTECTION REQUIREMENTS

1. Have erosion control BMP's been placed in compliance with minimum County standards? YES ☒ NO ☐
2. Have sediment control BMP's been place in compliance with minimum County standards? YES ☒ NO ☐
3. Is the site access road stabilized? YES ☒ NO ☐
4. Are the disturbed area perimeter barriers in place? YES ☒ NO ☐

REMARKS:

CERTIFICATION

I hereby certify, under penalty of perjury, that the information provided in this certification is true to the best of my k and belief.



Signature S. Riles Date 7/4/20
(To be signed and dated by a Registered Civil Engineer)

Registration or Certification Number _____

Address _____

Telephone Number _____



County of San Diego
Department of Environmental Health and Quality
 Land and Water Quality
 5500 Overland Ave., Suite 210, San Diego, CA 92123 / (858) 565-5173
www.sdcdehq.org

06/06/24

06/05/24

TOTAL PAGES 2

Mitchell Byrd

Sasha Byrd

BUYER x

ONSITE WASTEWATER TREATMENT PERMIT

PERMIT EXPIRATION DATE: 9/15/2022

RECORD ID: DEH2021-LSTP-006072

OWNER: HOPKINS TRUST 05-05-14 **SITE:** 2824 VIA ASOLEADO, ALPINE, CA 91901
ADDRESS: 7696 EAGLE RIDGE CT*SAN DIEGO CA SAN DIEGO, CA 92119 **PARCEL:** 520-240-20-00
LAYOUT RECORD ID:

This PERMIT is issued for the following: Conventional Permit - New	
Commercial / Residential: Residential	Gallons / Day: 750
Number of Bedrooms: 5	
Source of Portable Water: Public Water Supply	Water District: Padre Dam Municipal Water District

ONSITE WASTEWATER SYSTEM DETAILS	
Primary Septic Tank (in gallons): 1500	
Soil Disposal System:	
Leach Line Length: 525 ft. Trench Depth: 5 ft. Trench Width: 1.5 ft. Rock Below Pipe: 3 ft.	

COMMENTS:

Primary leach field installed as pre-dig. Permit for installation of septic tank only.

STS reserve: 1825 sqft GeoFlow dripline.

ANY CHANGES IN THE ABOVE DESIGN MAY VOID THE PERMIT

THIS PERMIT IS NOT TRANSFERABLE

INSPECTION REQUEST PHONE LINE: 858-694-2553

This permit is provisional. The Director or designee of the Director may order that the Permit or any permit element be denied, suspended or revoked for violation of any relevant requirement established or provided by law.



COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
5500 Overland Ave, Suite 210, San Diego, CA 92123
(858) 565-5173

DATE: Oct. 6, 2021
Project#: LSTP- 6072
APN#: 520-240-20

C. Dean 12/13/2021
☒ **APPROVED** Septic System **INSPECTION TYPE**
☒ **DISAPPROVED**
☐ **REINSPECTION FEES REQUIRED**

Site Address: 2824 Via Asolando City: Alpine, Ca.

• 1500 GAL INFILTRATOR SEPTIC TANK

* INSTALL RISERS TO GRADE.
PROVIDE PHOTOS TO DESIREE.HOGERVORST@
SDCOUNTY.CA.GOV.

OR
Call for reinspection

* Provide As-built of installed tank !
Teach Lines Recieved 12/13/2021
All items corrected.

INSTALLED BY: Mark Hopkins

OK TO BACKFILL ☐ YES ☒ NO
AS-BUILT PROVIDED BY CONTRACTOR ☐ YES ☒ NO- **MUST BE SUBMITTED**

Authentisign MB Authentisign JB

-----This Section for Repair/Modification Permits Only-----

- ☐ Permit issued for sewage disposal system repair purposes only.
- ☐ A nonstandard repair has been installed that may limit the long-term performance (See Repair Authorization Comments).
- ☐ No building permits are to be approved that would increase the sewage demand on the septic system, occupancy of the structure, or encroach upon the sewage disposal system because of the limited sewage disposal area available.
- ☐ Future failure may require engineering evaluation, pumping to a higher elevation, or connection to public sewer because no additional area exists on the site for a standard repair.

SPECIALIST: Desiree Hogervorst PHONE: 619 607.8384



County of San Diego
Department of Environmental Health and Quality
Land and Water Quality
 5500 Overland Ave., Suite 210, San Diego, CA 92123 / (858) 565-5173
www.sdcdeh.org

06/06/24
 06/05/24
 05/ALPAGES 8
 Authentisign
 BUYER x
 Authentisign
 BUYER x
 Mitchell Byrd
 Sasha Byrd

Owner: Matt Hopkins
Address: 7696 Eagle Ridge Ct
 San Diego, CA 92119
Phone: 619-861-6556
Professional: Frank Thing; CSLB Contractor #437700

Site: 2824 VIA ASOLEADO, ALPINE
Parcel: 520-240-20-00
Certification: Lot 99 map 10877
Record ID: DEH2021-LOWTS-012947

This project is APPROVED for the following:	
Commercial / Residential: Residential	Gallons / Day: 750
Number of Bedrooms: 5	
THIS IS NOT A SEPTIC PERMIT	
You have until 5/25/2022 to obtain a septic permit. However, a site recheck may be required at any time to determine if site conditions have changed. Refer to the County of San Diego, Department of Environmental Health Local Agency Management Program for Onsite Wastewater Treatment Systems for all applicable setbacks and standard conditions of approval.	

ONSITE WASTEWATER SYSTEM REQUIREMENTS
Primary Septic Tank (in gallons): 1500
Soil Disposal System:
Leach Line Length: 525 ft. (+100% reserve) Trench Depth: 5 ft. Rock Below Pipe: 3 ft.

CONDITIONS TO BE COMPLETED PRIOR TO THE ISSUANCE OF A SEPTIC PERMIT
1. VERIFICATION OF POTABLE WATER SOURCE
2. REVIEW OF GRADING BY DEH STAFF (CALL THE INSPECTION LINE AT (858) 694-2553 AFTER GRADING IS COMPLETED IF NOT SIGNED OFF BELOW)
3. REVIEW OF STAMPED BUILDING PLANS
Potable Water Source: Public Water Supply Water District: Padre Dam Municipal Water District
DEH Grading Inspection: Approved (5/25/2021) DEH Building Plan Review:
DEH Pump System Review: Waived

COMMENTS: PROPOSED 5 BR SFD.
 Reserve by STS with 1825sq.ft Geo Flow drip line.
 Primary system installed as pre-dig. Issue permit to install tank.

Approved By: Catherine Dean

Date: 5/25/2021



County of San Diego

DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 505-6700 or (800) 253-9933 Fax: (858) 514-6583
www.sdcdeh.org

AMY HARBERT
ASSISTANT DIRECTOR

4/19/20201

Matt Hopkins,
7696 Eagle Ridge Court,
San Diego,
CA 92119

Project Number: DEH2021-LOWTS-012947
Site: Via Asoleado, Alpine
Assessor Parcel Number: 520-240-20-00

Dear Mr Hopkins

The Department of Environmental Health (DEH) has reviewed the above septic layout submittal and the following requires your attention.

Due to quantity and extent of rock encountered and removed from site during pad grading you are requesting a "pre-dig" of the primary leach field, to be installed in a 5' trench. This is needed to verify that the site can support the proposed system design.

- The pre-dig involves the contractor excavating the proposed primary leach field prior to approval of the layout and prior to issuance of a septic tank permit. Should the pre-dig be successful, and a suitable reserve area identified, the layout would then be approved.
- It will also be necessary to demonstrate depth of soil. Provide 10ft- 15ft. backhoe slices to demonstrate depth of soil of at least 5ft below the bottom of the trench.
- The septic tank shall not be installed as part of the pre-dig attempt.

The applicant shall contact DEH and inform them of the date which the attempted excavation of the system is to take place and who will be doing the work, along with contact information for said contractor. The work **MUST** be overseen by an experienced licensed septic contractor. Upon completion of the leach line excavation, the contractor shall contact DEH to arrange inspection prior to the pit being rock filled.

Should you have any questions, please feel free to contact me.

Sincerely,

 Recoverable Signature

X Catherine Dean

Catherine Dean

 MB

 JB

Signed by: 2800230c-15c4-4d58-9f64-fbf9240d51d9

Catherine Dean,
Environmental Health Specialist III
Land and Water Quality Division

Dean, Catherine

From: Matthew Hopkins <matt@arguswest.com>
Sent: Wednesday, April 14, 2021 12:37 PM
To: Dean, Catherine
Subject: Via Asoleado pre dig

Hi Catherine - as we talked about, I'm requesting a pre dig of the septic lines to ensure we can accomplish 5' depth and for the entire length proposed.

During the grading process, we hit significant underground blue granite rock. We exported 600 million pounds of rock which included both surface and underground boulders.

The area reserved for the septic had yet to be determined how much more rock we will encounter.

Please authorize a pre dig to ensure we won't have to make significant and costly changes to the house design.

Best Regards,

Matthew R. Hopkins
President
Argus West, Inc.
cell (619) 861-6556

Sent from my iPhone

Authentisign
Mitchell Byrd 06/06/24

Authentisign
Sasha Byrd 06/05/24

Mitchell Byrd

06/06/24

Authentisign

Sasha Byrd

06/05/24

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH)
LAND AND WATER QUALITY DIVISION

SAN DIEGO OFFICE
5500 Overland Avenue
San Diego, Ca 92123
(619) 565-5713

matt@arguswest.com

DEH 2021-LOWTS 012947
Layout Extension
Catherine
3/22/24

TO: Pat Rymer

SITE: Vic Asolcedo, Alpine

OWNER: Matt Hopkins

APN: 520-240-20

MAILING ADDRESS: 7696 Eagle Ridge Court
San Diego, CA 92119

DEH CERTIFICATION: percolation testing/Lot 99 Map 10877

PHONE: (49) 861-6556

PROJECT #: DEH 2019-LOWTS 010309

This project is approved with the following conditions noted:

Specialist: [Signature] Date: 1-10-2020

CONDITIONS

- ☒ 100' to water well (tank and lines /150' to H-pits/
1/4 mile for V pits).
- 100' to high water line or creek or pond.
- 5:1 setback to cut bank or slope greater than 60%
(5' horizontal for every 1' vertical up to 100')
- 5:1 setback to ultimate road improvement cuts.
- Maintain 25' setback to water main/easement.
- Drainage course setback of 50' from edge of
flowline.
- ☒ Grading limited to design shown, or not to impact
adjacent lot(s).
- Setback to underground utility trenches (5:1).
- ☒ Maintain required setbacks (paved areas and
driveways require setbacks).
Septic tank to all structures is 5'.
Leach lines to all structures is 8'.
Seepage pit to all structures is 10'.
- Slopes exceed 25% (see special conditions).
- ☒ System to be located in native, undisturbed soil
- ☒ System to be located in approved, tested area.
- ☒ Leach lines to follow contour of land.
- ☒ Plumbing fall to allow standard trench depth.
- ☒ Tank to be installed in native material.
- ☒ *ADD 20% TO LEACH LINE LENGTH WITH
INFILTRATOR 24 CHAMBER*

COMMENTS:

- * Review of completed grading required prior to
septic permit issuance. All rocks must be
removed/relocated out of the primary and
reserve areas.
- ** Review of stamped building plans required prior
to septic permit issuance.
- *** Verification of potable water source required
prior to septic permit issuance.

Reserve area is 1825 ft² of drip irrigation with Supplemental
Treatment system. Not to be impacted during construction.

FOR DEH USE ONLY

Septic Tank (in gallons): 1500
Leach Line: Length * 525' ft (+100% reserve)
Trench Depth 5' Rock Below Pipe 3'
Horizontal Pit: Length _____ Cap: _____
Vertical Pit: Depth: _____ Cap: _____
This system is approved to serve a 5 bedroom
dwelling.

THIS IS NOT A SEPTIC PERMIT!

NOTE: YOU HAVE ONE YEAR TO OBTAIN A SEPTIC
TANK PERMIT. HOWEVER, A SITE RECHECK MAY BE
REQUIRED AT ANY TIME TO DETERMINE IF SITE
CONDITIONS HAVE CHANGED.

ADDITIONAL REQUIREMENTS TO BE
COMPLETED PRIOR TO THE
ISSUANCE OF A SEPTIC PERMIT

- REVIEW OF GRADING BY DEH STAFF (CALL YOUR
SPECIALIST AFTER GRADING IS COMPLETED IF NOT
SIGNED OFF BELOW)
- REVIEW OF STAMPED BUILDING PLANS

* DEH GRADING INSPECTION: See comments

** DEH BUILDING PLAN REVIEW: _____

*** VERIFICATION OF POTABLE WATER SOURCE: A or B

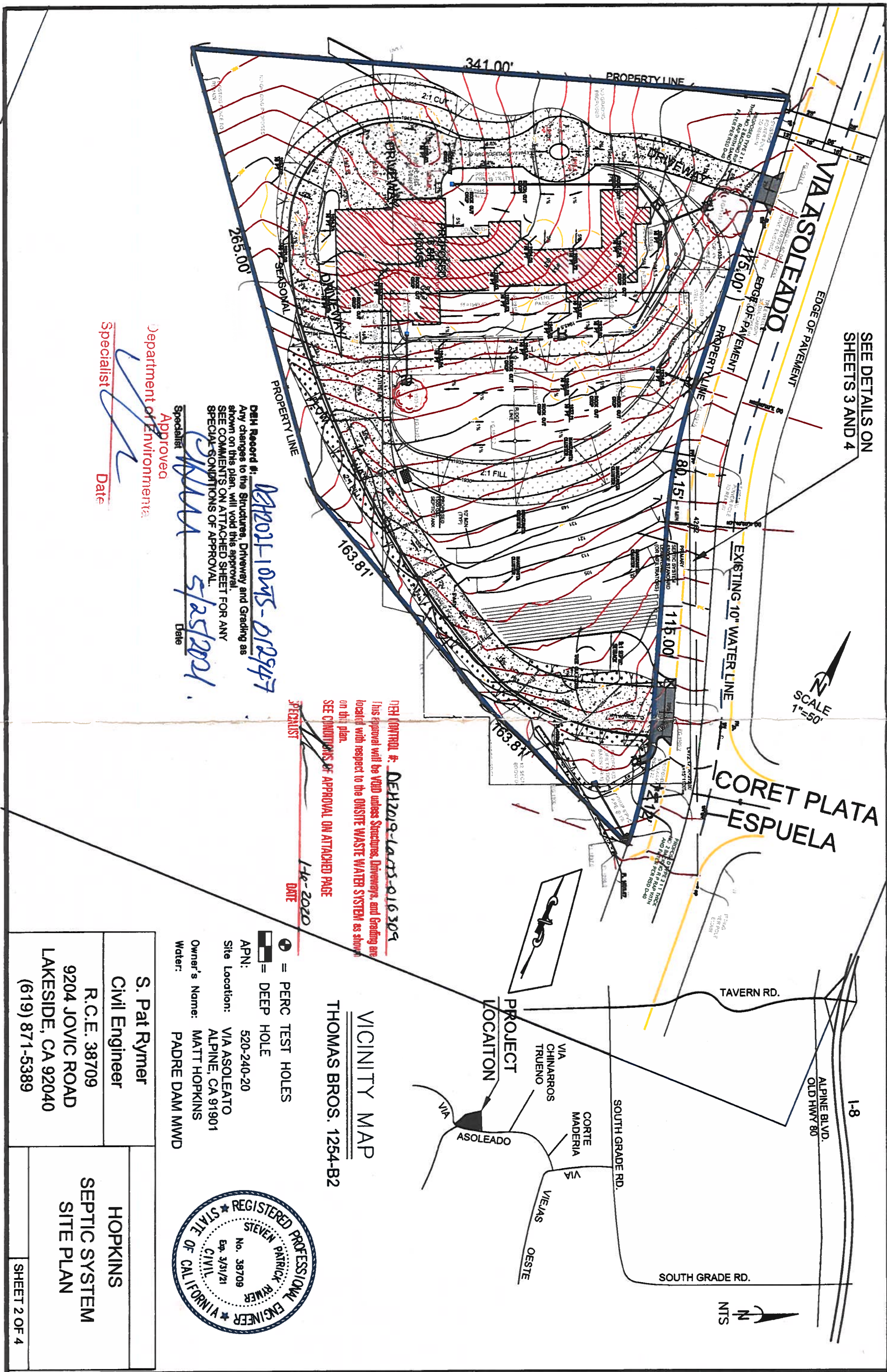
A) WELL (Lab Number and Date): _____

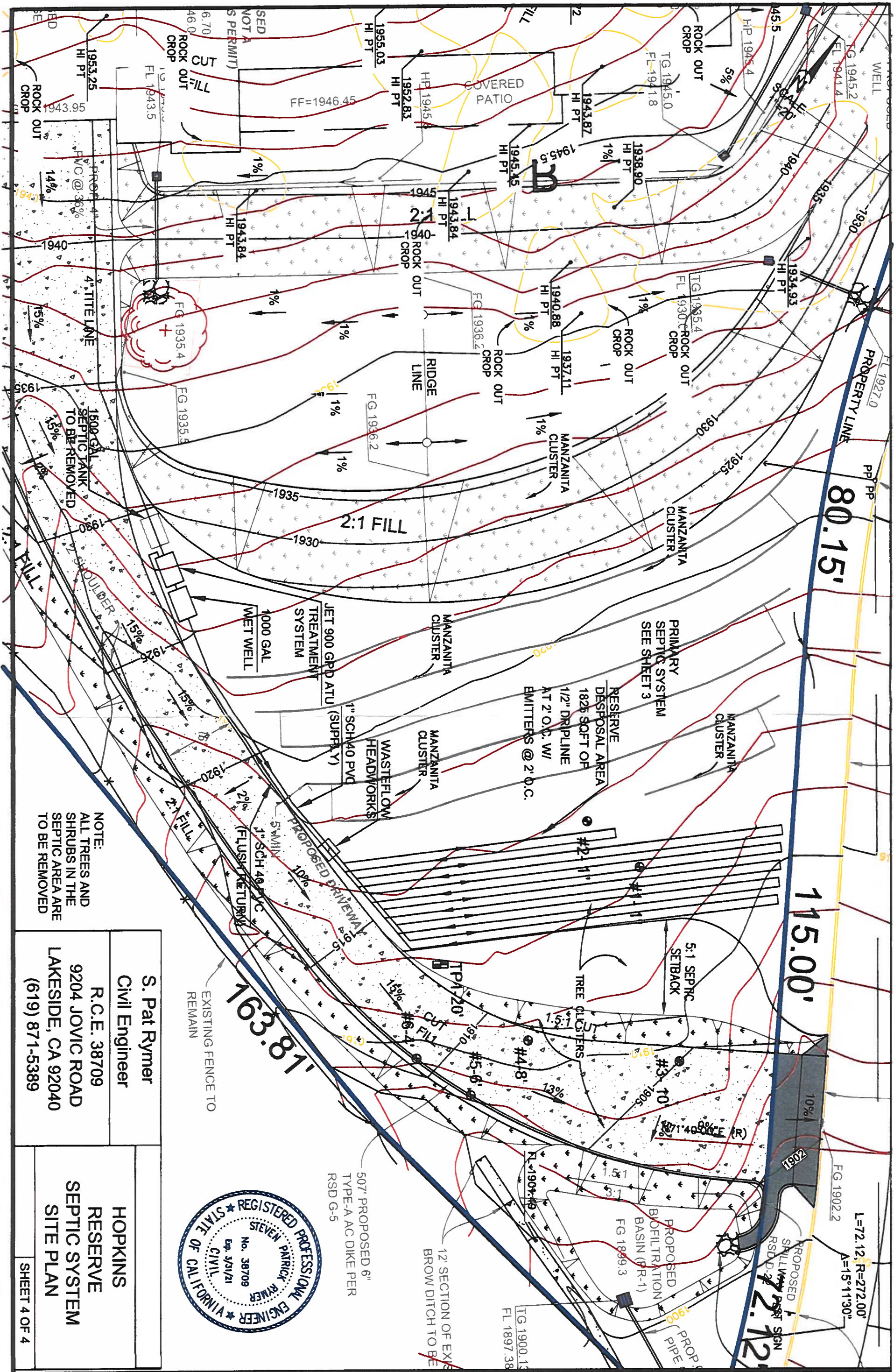
B) Public Water Supply (Purveyor): Padre Dam

FOR DEH USE ONLY:

OK To issue Septic Permit Date _____

OK to issue Building Permit Date _____





ENGINEER'S NAME: S. PAT RYMER, CIVIL ENGINEER
PHONE NO. (619) 871-5389

Mitchell Byrd

06/06/24

Sasha Byrd

06/05/24

S. Pat Rymer
Civil Engineer

R.C.E. 38709
9204 JOVIC ROAD
LAKEVIEW, CA 92040
(619) 871-5389

HOPKINS
RESERVE
SEPTIC SYSTEM
SITE PLAN

SHEET 4 OF 4



[illegible][illegible]

ATTACHMENTS (≤)

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and

NAME John Doe
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

GENERAL NOTES

- ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF COUNTY GRADING ORDINANCE SECTION 87.101 THROUGH 87.804.
- 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.
- REGARDLESS OF WHICH BMPs ARE IMPLEMENTED, ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED AND MAINTAINED WITH GROUND COVER OR OTHER PLANTING IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS TO PROTECT THE SLOPES AGAINST EROSION AND INSTABILITY. PLANTING SHALL COMMENCE AS SOON AS SLOPES ARE COMPLETED.
- 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
AT&T TELEPHONE
CATV
SEWER (NONE-ON SEPTIC)
WATER (PADRE DAM)

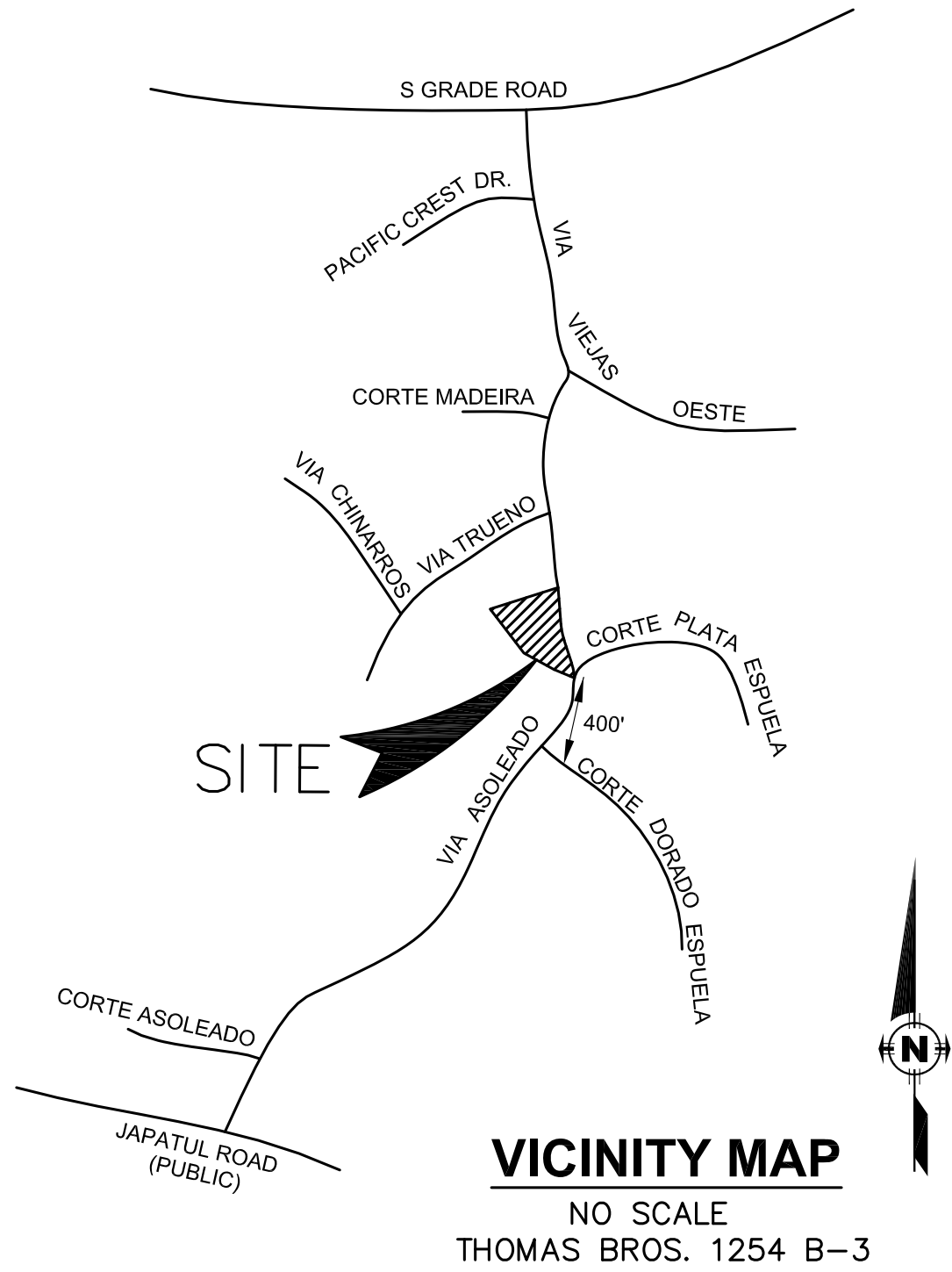
PHONE NUMBER:
(800) 227-2600
(800) 288-2020
(800) 234-3993
N/A
(619) 258-4600
- A SOILS REPORT WITH COMPACTION TESTS IS REQUIRED FOR ALL FILL OVER 12" IN DEPTH. PDS FORM 73 MINOR GRADING CERTIFICATION AND A COPY OF THE COMPACTION REPORT IS REQUIRED TO BE SUBMITTED PRIOR TO ROUGH GRADING APPROVAL.
- NATURAL DRAINAGE SHALL NOT BE DIVERTED OR CONCENTRATED ONTO ADJACENT PROPERTY.
- ALL GRADING DETAILS SHALL BE IN CONFORMANCE WITH THE FOLLOWING SAN DIEGO COUNTY DESIGN STANDARDS OR REGIONAL STANDARD DRAWINGS:

DS-08 LOT GRADING
DS-10 GRADING OF SLOPES
DS-11 REQUIRED SETBACKS
D-40 RIP RAP ENERGY DISSIPATER
D-75 DRAINAGE DITCH
- 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. ISSUANCE OF A GRADING PERMIT SHALL CONSTITUTE AN AUTHORIZATION TO PERFORM ONLY THAT WORK WHICH IS DESCRIBED OR SHOWN ON THE GRADING PERMIT APPLICATION AND APPROVED GRADING PLANS.
- 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 (PDS).
- 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--2:1
FILL--2:1
EXCAVATION: 4,930 C.Y. FILL: 4,930 C.Y. IMPORT: 0 C.Y. EXPORT: 0 C.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.
- REGARDLESS OF WHICH BMPs ARE IMPLEMENTED, ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED AND MAINTAINED WITH GROUND COVER OR OTHER PLANTING IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS TO PROTECT THE SLOPES AGAINST EROSION AND INSTABILITY. PLANTING SHALL COMMENCE AS SOON AS SLOPES ARE COMPLETED.
- A CONSTRUCTION PERMIT MUST BE OBTAINED FOR ANY WORK IN THE COUNTY ROAD RIGHT OF WAY. FUTURE DEVELOPMENT OF THIS PROPERTY MAY REQUIRE ADDITIONAL PERMITS AND REVIEW BY THE COUNTY OF SAN DIEGO.
- NO SEALANT SHALL BE APPLIED TO CONSTRUCTED PERMEABLE SURFACES.

RESIDENTIAL MINOR GRADING PLAN



ENVIRONMENTAL NOTES

NOTICE: THE SUBJECT PROPERTY CONTAINS HABITAT WHICH MAY BE USED FOR NESTING BY MIGRATORY BIRDS. ANY GRADING, BRUSHING OR CLEARING CONDUCTED DURING THE MIGRATORY BIRD BREEDING SEASON, FEBRUARY 1 - AUGUST 31, HAS A POTENTIAL TO IMPACT NESTING OR BREEDING BIRDS IN VIOLATION OF THE MIGRATORY BIRD TREATY ACT. THE APPLICANT MAY SUBMIT EVIDENCE THAT NESTING OR BREEDING MIGRATORY BIRDS WILL NOT BE AFFECTED BY THE GRADING, BRUSHING OR CLEARING TO THESE AGENCIES: CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, 3883 RUFFIN RD., SAN DIEGO, CA 92123, (858) 467-4201, [HTTP://WWW.DFG.CA.GOV/](http://www.dfg.ca.gov/); AND UNITED STATES FISH AND WILDLIFE SERVICE, 2177 SALK AVENUE, SUITE 250, CARLSBAD, CALIFORNIA 92008, (760) 431-9440, [HTTP://WWW.FWS.GOV/](http://www.fws.gov/).

NOTICE: IN ORDER TO AVOID IMPACTS TO NESTING MIGRATORY BIRDS AND RAPTORS, WHICH ARE A SENSITIVE BIOLOGICAL RESOURCE PURSUANT TO CEQA, THE MBTA AND FISH AND WILDLIFE CODE, BREEDING SEASON AVOIDANCE SHALL BE IMPLEMENTED ON ALL PLANS. THERE SHALL BE NO BRUSHING, CLEARING AND/OR GRADING SUCH THAT NONE WILL BE ALLOWED DURING THE BREEDING SEASON OF MIGRATORY BIRDS OR RAPTORS, BETWEEN JANUARY 15 AND AUGUST 31. THE DIRECTOR OF PDS MAY WAIVE THIS CONDITION, THROUGH WRITTEN CONCURRENCE FROM THE US FISH AND WILDLIFE SERVICE AND THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, PROVIDED THAT NO NESTING OR BREEDING BIRDS ARE PRESENT WITHIN 300 FEET OF THE BRUSHING, CLEARING OR GRADING (500 FEET FOR RAPTORS) BASED ON A SURVEY CONDUCTED BY A COUNTY-APPROVED BIOLOGICAL CONSULTANT WITHIN SEVEN DAYS PRIOR TO THE PROPOSED START OF CLEARING/GRADING. IF NESTING BIRDS ARE PRESENT IN THE VICINITY, PRIOR TO GRANTING PERMISSION PDS AND THE WILDLIFE AGENCIES MAY REQUIRE AVOIDANCE MEASURES SUCH AS: BUT NOT LIMITED TO, STAKING AND POSTING AN AREA 300 FEET FROM THE NEST TO PROHIBIT ALL CLEARING, GRUBBING AND CONSTRUCTION WORK WITHIN THE PERIMETER UNTIL THE QUALIFIED BIOLOGIST DETERMINES THAT THE NESTS ARE NO LONGER OCCUPIED WITH WRITTEN NOTIFICATION TO THE APPROVAL OF THE DIRECTOR OF PDS.

OWNERS CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS.

IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETIONS OF THE IMPROVEMENTS.

BY: _____ DATE: _____
ASSESSOR'S PARCEL NUMBER: 520-240-20
NAME: MATTHEW R. HOPKINS, TRUSTEE OF THE HOPKINS TRUST DATED 3-5-2014
ADDRESS: 7696 EAGLE RIDGE COURT
SAN DIEGO, CA 92119
PHONE NUMBER: (619) 861-6556



BY: _____ DATE: _____
LAWRENCE W. WALSH
RCE NO.: 46316 EXPIRES 12/31/20
THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.
BY: _____ DATE: _____
FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES

Walsh Engineering & Surveying, Inc.
607 Aldwych Road, El Cajon, CA 92020
(619) 588-6747 (619) 792-1232 Fax

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 LEGEND:

ITEM	STD. DWG.	SYMBOL
EXISTING AC PAVEMENT		
PROPOSED AC PAVEMENT		
PROPOSED PCC PAVEMENT		
2:1 CUT SLOPE		
2:1 FILL SLOPE		
AREA WHERE NO GRADING IS PROPOSED		
PROPERTY LINE		
CUT/FILL LINE		
EXISTING CONTOUR		
PROPOSED CONTOUR		
PROPOSED ELEVATIONS		
PROPOSED BERM	SEE DETAIL ON SHEET 2	
PROPOSED 24"x24" CATCH BASIN WITH STEEL GRATE ("BROOKS" 2424CB)		
PROPOSED 12"x12" CATCH BASIN WITH STEEL GRATE ("BROOKS" 1212CB)		
PROPOSED 12"x12" CATCH BASIN WITH STEEL COVER ("BROOKS" 1212CB)		
PROPOSED 6" PCC CURB		
PROPOSED RIP RAP	RSD D-40	

SHEET INDEX

SHEET 1	TITLE SHEET
SHEET 2	GRADING PLAN
SHEET 3	EROSION CONTROL AND CONSTRUCTION BMP STANDARD NOTES AND DETAILS
SHEET 4	EROSION CONTROL AND CONSTRUCTION BMP PLAN
SHEET 5	DRAINAGE MANAGEMENT AREA SHEET

DISTURBED AREA CALCS

PAD + SLOPES: 46,800 SF
DRIVEWAY: 15,750 SF
PRIMARY SEPTIC: 5,590 SF
FIRE CLEARING: 0 SF
TOTAL: 68,140 SF
IF ≥1 AC, PROVIDE WQID #: _____

DWELLING UNITS

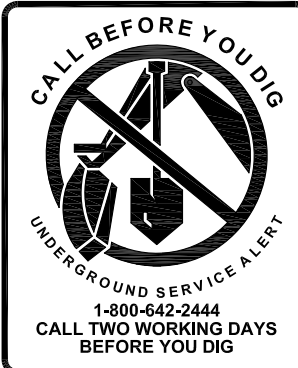
INDICATE THE NUMBER OF DWELLING UNITS IN PROJECT: 1
INDICATE THE NUMBER OF GRADED PADS IN PROJECT: 1

STORMWATER POLLUTANT CONTROL AND HYDROMODIFICATION MANAGEMENT CONTROL BMP'S					
DESCRIPTION/TYPE	SHEET	BMP ID #	MAINTENANCE CATEGORY	MAINTENANCE AGREEMENT REC. DOC. #	REVISIONS
2 TREE WELLS	5	TREE WELL #1&2	N/A		
BIOFILTRATION BASIN	5	PR-1	CAT 1		

* BMP'S APPROVED AS PART OF THIS STORMWATER QUALITY MANAGEMENT PLAN (SWQMP) DATED 11/05/2019 ON FILE WITH DPW. ANY CHANGES TO THE ABOVE BMP'S WILL REQUIRE SWQMP REVISION AND PLAN CHANGE APPROVALS.

OWNER'S / PERMITTEE'S

NAME: MATTHEW R. HOPKINS & CHERI L. HOPKINS, TRUSTEES OF
THE HOPKINS TRUST DATED MARCH 5, 2014
ADDRESS: 7696 EAGLE RIDGE COURT
SAN DIEGO, CA 92119
TELEPHONE NO: (619) 861-6556
SHORT LEGAL DESCRIPTION: LOT 99, PER MAP 010877
A.P.N. NO: 520-240-20
SITE ADDRESS: 2824 VIA ASOLEADO, ALPINE, CA 91901



FIRE DEPARTMENT APPROVAL

FIRE DEPT. / DISTRICT ALPINE FIRE PROTECTION
DISTRICT

APPROVED BY: _____

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: _____ DATE: _____
RCE NO: 46316 EXPIRES: 12/31/20

PDS ENVIRONMENTAL REVIEW

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY: _____

DATE: _____

NOTICE: THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR SAID 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 ANY AMENDMENTS THERETO.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:

PERMITS

LANDSCAPE PERMIT NO. LP-19-018
WQID/NOI NO. _____ SWPPP RISK LEVEL _____
TENTATIVE MAP NO. N/A

BENCH MARK

DESCRIPTION: A 2 1/2" BRASS DISC STAMPED "LS 4300" SET 0.5' BELOW ST. LEVEL IN A STD. ST. SURVEY MON.
LOCATION: INTERSECTION OF CL OF SOUTH GRADE RD & CL OF SHAYLENE WAY
RECORD FROM: MAP 11531
ELEVATION: 1819.20 DATUM: NGVD 29

PRIVATE CONTRACT

SHEET 1 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 5 SHEETS

MINOR GRADING PLAN FOR:

HOPKINS RESIDENCE

CALIFORNIA COORDINATE INDEX 234-1839 (NAD)

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

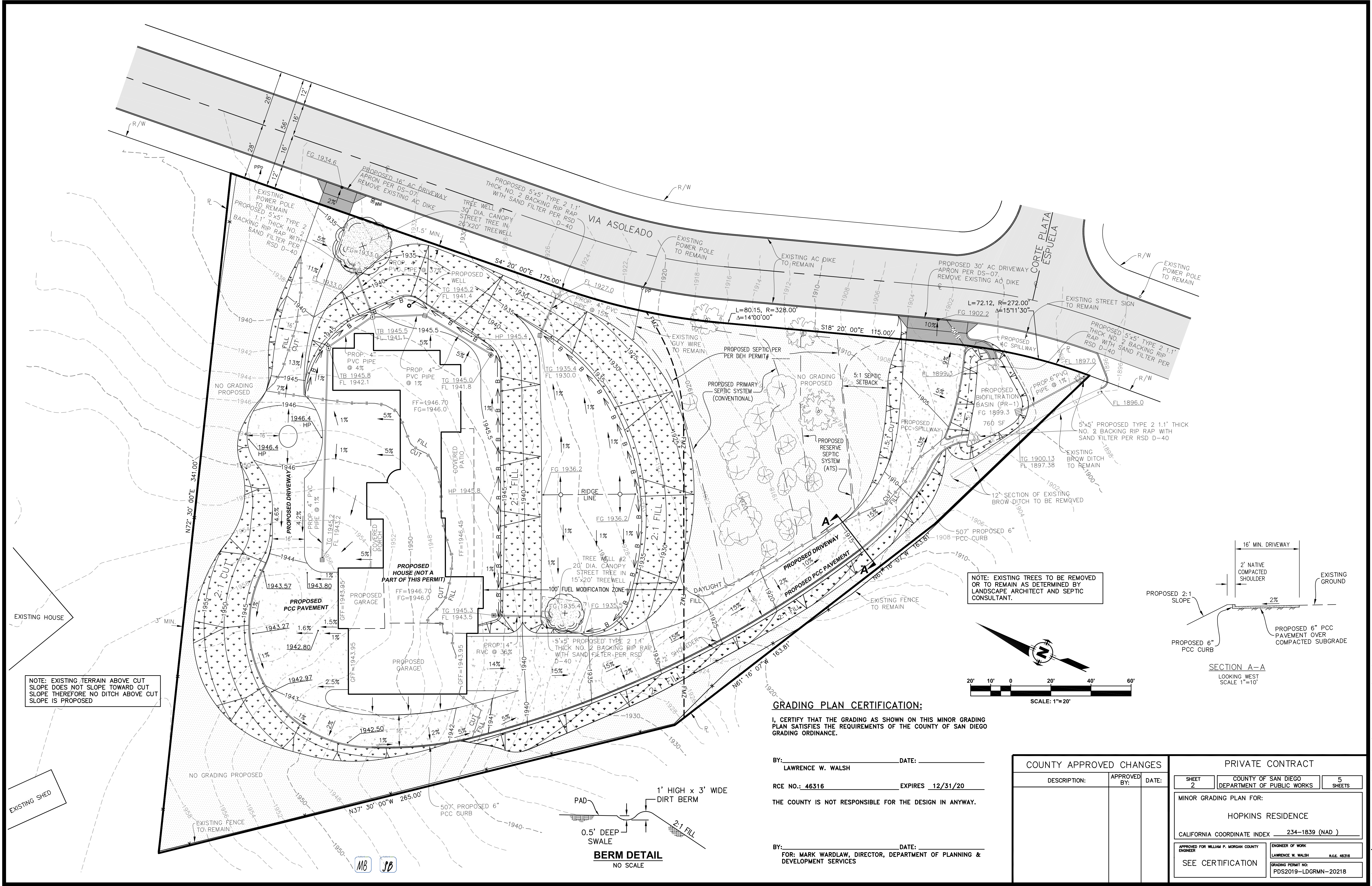
SEE CERTIFICATION

ENGINEER OF WORK

LAWRENCE W. WALSH R.C.E. 46316

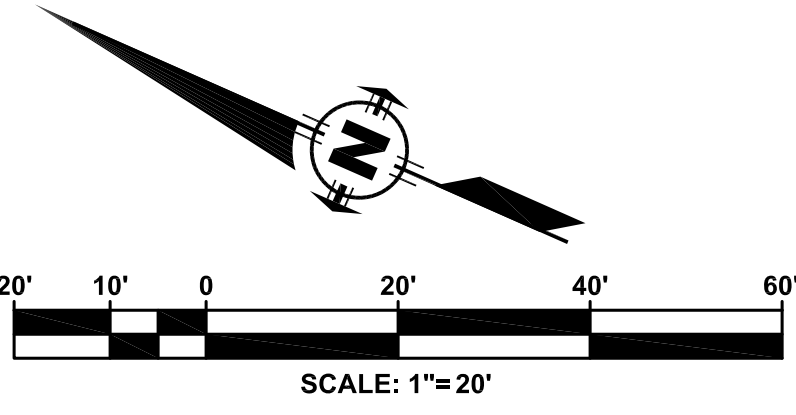
GRADING PERMIT NO. PDS2019-LDGRMN-20218





NOTE: EXISTING TERRAIN ABOVE CUT SLOPE DOES NOT SLOPE TOWARD CUT SLOPE THEREFORE NO DITCH ABOVE CUT SLOPE IS PROPOSED

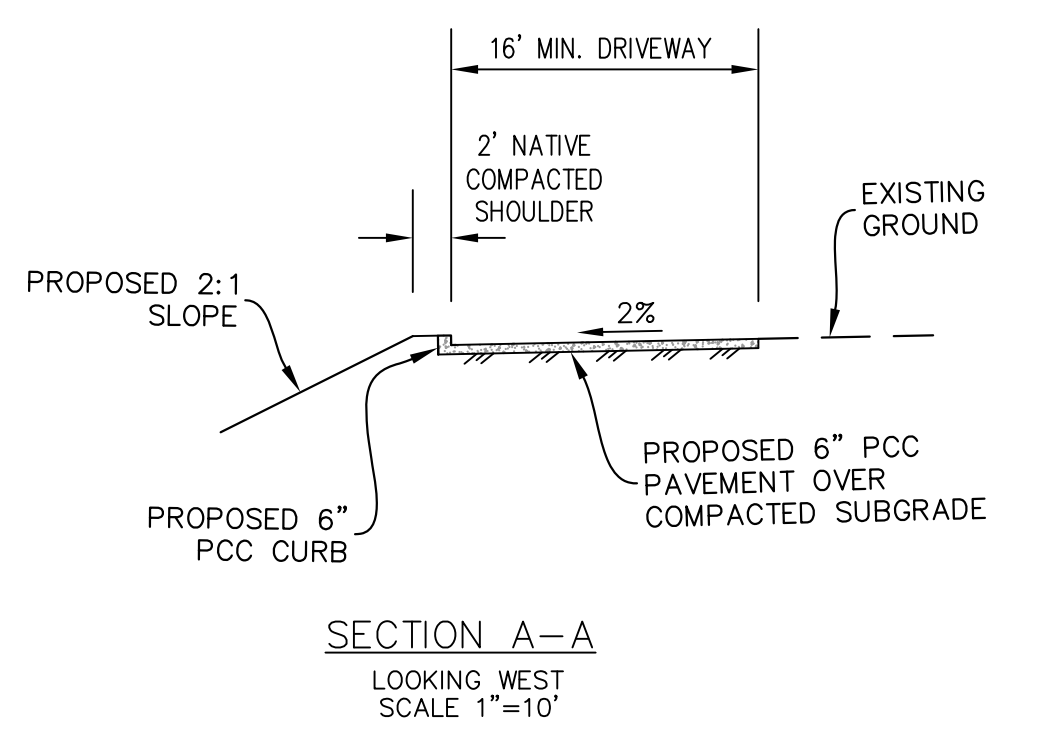
NOTE: EXISTING TREES TO BE REMOVED OR TO REMAIN AS DETERMINED BY LANDSCAPE ARCHITECT AND SEPTIC CONSULTANT.



GRADING PLAN CERTIFICATION:
I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: LAWRENCE W. WALSH DATE: _____
RCE NO.: 46316 EXPIRES 12/31/20
THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: _____ DATE: _____
FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES



COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 2	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	5 SHEETS
MINOR GRADING PLAN FOR:					
HOPKINS RESIDENCE					
CALIFORNIA COORDINATE INDEX 234-1839 (NAD)					
APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER			ENGINEER OF WORK		
SEE CERTIFICATION			LAWRENCE W. WALSH RCE 46316		
			GRADING PERMIT NO. PDS2019-LDGRMN-20218		

BMP STORMWATER MANAGEMENT NOTES:

1. 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% OF ALL SUPPLIES NEEDED FOR BMP MEASURES 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.
2. NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE SAN DIEGO COUNTY DPW 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.
3. THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS AT ALL TIMES. THE BMP'S (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY ADVERSE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORMWATER QUALITY. THE MAINTENANCE OF THE BMP'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMP'S MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERWISE. IF INSTALLED BMP'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
4. ON PROJECTS OF GREATER THAN 1 ACRE ADD THE FOLLOWING NOTE: A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND THAT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (R9-2015-0001 AND R9-2015-0100, NPDES NO. CAS0102966) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE NOI NUMBER ASSIGNED BY SWRCB FOR THIS PROJECT IS [VOID#]. [ALTERNATIVE: NOT YET ASSIGNED, BUT WILL BE PROVIDED BEFORE A PERMIT IS ISSUED]. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.

ADDITIONAL BMP NOTES:

1. THESE BMPs ARE MANDATORY TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR THESE PLANS.
2. NO CHANGES TO THE PROPOSED BMPs ON THIS SHEET WITHOUT PRIOR APPROVAL FROM THE COUNTY.
3. NO SUBSTITUTIONS TO THE MATERIAL, TYPES, OR PLANTING TYPES WITHOUT PRIOR APPROVAL FROM THE COUNTY ENGINEER.
4. NO OCCUPANCY WILL BE GRANTED UNTIL THE COUNTY STAFF HAS INSPECTED THIS PROJECT FOR APPROPRIATE BMP CONSTRUCTION AND INSTALLATION.
5. ALL VEGETATED BMPs SHALL BE SHOWN ON LANDSCAPE PLANS PER PERMIT #_____.
6. REFER TO THE MAINTENANCE PLAN IN ATTACHMENT 3 OF SWQMP FOR ACCESS TO STRUCTURAL BMPs TO INSPECT AND PERFORM MAINTENANCE, FEATURES PROVIDED TO FACILITATE INSPECTION, MAINTENANCE THRESHOLDS, RECOMMENDED EQUIPMENT TO PERFORM MAINTENANCE, AND SPECIAL TRAINING OR CERTIFICATION REQUIREMENTS FOR INSPECTION AND MAINTENANCE PERSONNEL.
7. ALL GRADING CONTOURS SHALL BE CONSISTENT WITH DMA EXHIBIT.
8. SEE PROJECT SWQMP FOR ADDITIONAL INFORMATION.

HYDROSEED NOTES:

- a. ROUGHENING THE SURFACE TO BE PLANTED BY ANY OR COMBINATION OF:
 - a.a. TRACK WALKING SLOPES STEEPER THAN 6:1
 - a.b. HARROWING AREAS 6:1 OR FLATTER THAT ARE SUFFICIENTLY FRIABLE.
 - a.c. RIPPING AREAS THAT WILL NOT BREAK UP USING ITEMS a.d. OR a.b. ABOVE.
6. CONDITION THE SOILS SO THAT IT IS SUITABLE FOR PLANTING BY:
 - a. ADJUSTING THE SURFACE SOIL MOISTURE TO PROVIDE A DAMP BUT NOT SATURATED SEED BED.
 - b. THE ADDITION OF SOIL AMENDMENTS, PH ADJUSTMENT, LEACHING OR COVERING SALINE SOILS TO PROVIDED VIABLE CONDITIONS FOR GROWTH.
7. HYDROSEEDED AREAS SHALL BE MAINTAINED TO PROVIDE A VIGOROUS GROWTH UNTIL THE PROJECT IS PERMANENTLY LANDSCAPED OR, FOR AREAS WHERE HYDROSEEDING IS THE PERMANENT LANDSCAPING, UNTIL THE PROJECT IS COMPLETED AND ALL GRADING BONDS RELEASED.

NOTE:

ALL SLOPES OVER THREE FEET MUST HAVE ESTABLISHED VEGETATIVE COVER
PRIOR TO FINAL PERMIT APPROVAL



Walsh Engineering & Surveying, Inc.
607 Aldwych Road, El Cajon, CA 92020
(619) 588-6747 (619) 792-1232 Fax

The diagram illustrates a gravel approach for erosion control. It shows a cross-section of a road or driveway where the existing pavement edge is being replaced with a gravel structure. The gravel is composed of 2" - 3" coarse aggregate, 6" thick. A runoff diversion ridge is shown at the base of the gravel structure. A spillway is indicated at the top of the gravel structure. The gravel structure is 12' minimum wide. A note states that all areas of significant vehicle traffic (site entrances, access roads, parking lots, etc.) should be stabilized immediately after grading to prevent erosion and control dust. Site entrances and exits are especially important. Gravel approaches should be used to limit tracking of sediment offsite.

Labels in the diagram include:

- SUPPLY WATER TO WASH WHEELS IF NECESSARY
- EXISTING EDGE OF PAVEMENT
- SPILLWAY
- FLOW
- USE GRAVEL BAGS, STRAW BALES OR OTHER APPROVED METHOD TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED
- 2" - 3" COURSE AGGREGATE (6" THICK MIN.)
- RUNOFF DIVERSION RIDGE
- 12' MIN.
- NOTE:
- ALL AREAS OF SIGNIFICANT VEHICLE TRAFFIC (SITE ENTRANCES, ACCESS ROADS, PARKING LOTS, ETC.) SHOULD BE STABILIZED IMMEDIATELY AFTER GRADING TO PREVENT EROSION AND CONTROL DUST. SITE ENTRANCES AND EXITS ARE ESPECIALLY IMPORTANT. USE GRAVEL APPROACHES TO LIMIT TRACKING OF SEDIMENT OFFSITE.

3 BAGS HIGH (MAX.)
2 BAGS HIGH (MIN.)

18"

6"

NOTE: LOWER BAG ROW TO BE BURIED 6" UNDER GRADE.

GRAVEL BAG CHECK DAM

NO SCALE

SC-6

The diagram illustrates a cross-section of a road shoulder. A vertical line represents the edge of the road. To the left of this line, a shaded area represents the shoulder. A horizontal line is drawn across the shoulder, with arrows pointing to it from the text 'SLOPE VARIES'. Below this line, the text '100 mm max' is written. To the right of the vertical line, a circular pattern represents a 'FIBER ROLL 200 MM MIN'. Below the fiber roll, the text '19 MM X 19MM WOOD STAKE MAX 1.2 M SPACING' is written. To the left of the fiber roll, the text '300 mm min' is written.

ENTRENCHMENT DETAIL

GRADING PLAN CERTIFICATION:

I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: _____ DATE: _____
LAWRENCE W. WALSH

RCE NO.: 46316 EXPIRES 12/31/20

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: _____ DATE: _____
FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING &
DEVELOPMENT SERVICES

COUNTY APPROVED CHANGES			PRIVATE CONTRACT	
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 3	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS
			EROSION CONTROL AND CONSTRUCTION BMP STANDARD NOTES AND DETAILS FOR: HOPKINS RESIDENCE	
			CALIFORNIA COORDINATE INDEX 234-1839 (NAD)	
			APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER	ENGINEER OF WORK LAWRENCE W. WALSH P.C.E. 46316
			SEE CERTIFICATION	
			GRADING PERMIT NO: PDS2019-LDGRMN-20218	

BMP LEGEND

- PDS 659 BROW DITCH
PDS 659 BERM
DIRECTION OF LOT DRAINAGE

MATERIALS & WASTE MANAGEMENT CONTROL BMPs

- WM-1 MATERIAL DELIVERY & STORAGE
WM-4 SPILL PREVENTION AND CONTROL
WM-8 CONCRETE WASTE MANAGEMENT
WM-9 SOLID WASTE MANAGEMENT
WM-9 SANITARY WASTE MANAGEMENT
WM-6 HAZARDOUS WASTE MANAGEMENT

TEMPORARY RUNOFF CONTROL BMPs

- SS-2 PRESERVATION OF EXISTING VEGETATION
SS-3 BONDED OR STABILIZED FIBER MATRIX (WINTER)
SS-4 HYDROSEEDING (SUMMER)
SS-6/SS-8 STRAW OR WOOD MULCH
SS-7 PHYSICAL STABILIZATION (WINTER)
SS-10 ENERGY DISSIPATOR
SC-1 SILT FENCE
SC-2 SEDIMENT / DESILTING BASIN
SC-5 FIBER ROLLS
SC-6/SC-8 GRAVEL OR SAND BAGS
SC-7 STREET SWEEPING AND VACUUMING
SC-10 STORM DRAIN INLET PROTECTION
NS-2 DEWATERING FILTRATION
TC-1 STABILIZED CONSTRUCTION ENTRANCE
TC-2 CONSTRUCTION ROAD STABILIZATION
TC-3 ENTRANCE / EXIT TIRE WASH

POST CONSTRUCTION SITE DESIGN BMPs

- 4.3.1 MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES
4.3.2 CONSERVE NATURAL AREAS, SOILS, AND VEGETATION
4.3.3 MINIMIZE IMPERVIOUS AREA
4.3.4 MINIMIZE SOIL COMPACTION
4.3.5 IMPERVIOUS AREA DISPERSION
4.3.6 RUNOFF COLLECTION
4.3.7 LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES
4.3.8 HARVESTING AND USING PRECIPITATION

POST CONSTRUCTION SOURCE CONTROL BMPs

- 4.2.1 PREVENTION OF ILLICIT DISCHARGES INTO THE MS4
4.2.2 STORM DRAIN STENCILING AND POSTING OF SIGNAGE
4.2.3 PROTECTED OUTDOOR MATERIALS STORAGE AREAS
4.2.4 PROTECTED MATERIALS STORED IN OUTDOOR WORK AREAS
4.2.5 PROTECT TRASH STORAGE AREAS
4.2.6 ADDNL BMPs BASED ON POTENTIAL RUNOFF POLLUTANTS:
A ON-SITE STORM DRAIN INLETS
B INTERIOR FLOOR DRAINS & ELEVATOR SHAFT SUMPS
C INTERIOR PARKING GARAGES
D NEED FOR FUTURE INDOOR & STR. PEST CONTROL
E LANDSCAPE/OUTDOOR PESTICIDE USE
F POOLS, SPAS, PONDS, FOUNTAINS, & WATER FEATURES
G FOOD SERVICE
H TRASH OR REFUSE AREAS
I INDUSTRIAL PROCESSES
J OUTDOOR STORAGE OF EQUIP. OR MATERIALS
K VEHICLE AND EQUIPMENT CLEANING
L VEHICLE/EQUIPMENT REPAIR AND MAINTENANCE
M FUEL DISPENSING AREAS
N LOADING DOCKS
O FIRE SPRINKLER TEST WATER
P MISCELLANEOUS DRAIN OR WASH WATER
Q PLAZAS, SIDEWALKS, DRIVEWAYS, AND PARKING LOTS

LEGEND

ITEM	SYMBOL	QUANTITY
FIBER ROLLS	FR	840 LF
GRAVEL BAGS		300 EA
HYDROSEED		18,100 SF
STABILIZED CONSTRUCTION ENTRANCE		1,400 SF
MULCH		23,000 SF

GRADING PLAN CERTIFICATION:

I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: LAWRENCE W. WALSH DATE:

RCE NO.: 46316 EXPIRES 12/31/20

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES DATE:

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 4	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	5 SHEETS
EROSION CONTROL AND CONSTRUCTION BMP PLAN FOR:		
HOPKINS RESIDENCE		
CALIFORNIA COORDINATE INDEX 234-1839 (NAD)		
APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER	ENGINEER OF WORK LAWRENCE W. WALSH R.C.E. 46316	
SEE CERTIFICATION	GRADING PERMIT NO: PDS2019-LDGRMN-20218	

PROPOSED SITE FEATURES & CONSTRUCTION BMPs

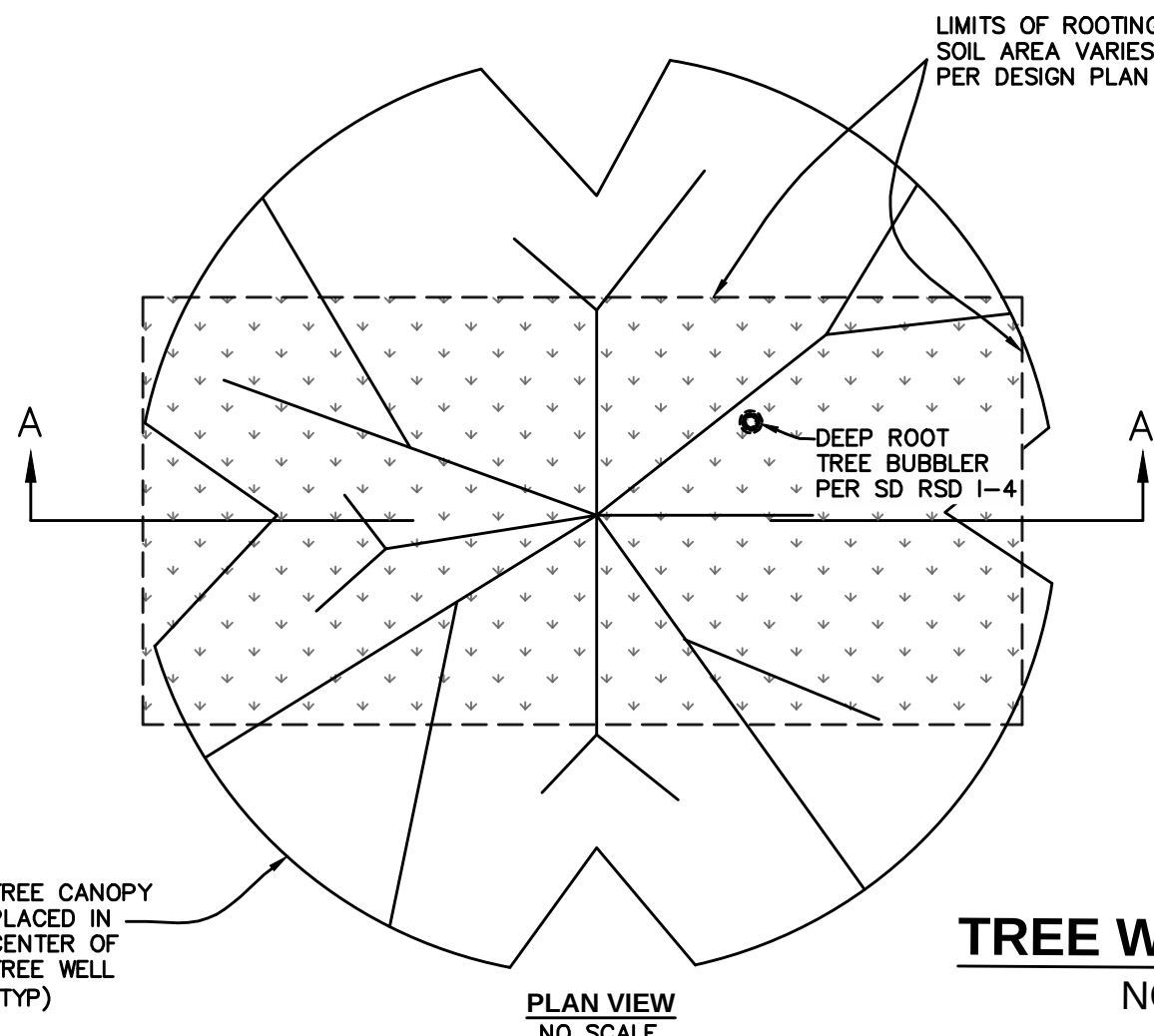
- SD-G NATURAL AREAS, SOILS, AND VEGETATION
- SD-B PATIOS, DECKS, & COURTYARDS
- SD-B ROOFTOP AREAS
- SD-J LANDSCAPED AREAS
- SS-4 HYDROSEEDING (SUMMER)
- SS-6/SS-8 STRAW OR WOOD MULCH
- SS-10 ENERGY DISSIPATOR
- SC-5 FIBER ROLLS
- SC-6/SC-8 GRAVEL OR SAND BAGS
- SC-10 STORM DRAIN INLET PROTECTION
- TC-1 STABILIZED CONSTRUCTION ENTRANCE
- WM-1 MATERIAL DELIVERY & STORAGE
- WM-4 SPILL PREVENTION AND CONTROL
- WM-8 CONCRETE WASTE MANAGEMENT
- WM-9 SOLID WASTE MANAGEMENT
- WM-9 SANITARY WASTE MANAGEMENT
- WM-6 HAZARDOUS WASTE MANAGEMENT

EXISTING SITE FEATURES

SOIL: TYPE C
DEPTH TO GROUNDWATER: NONE ENCOUNTERED
CRITICAL SEDIMENT YIELD COARSE AREAS: NONE
EXISTING IMPERVIOUS AREA: 0 SF
PROPOSED IMPERVIOUS AREA: 24,984 SF

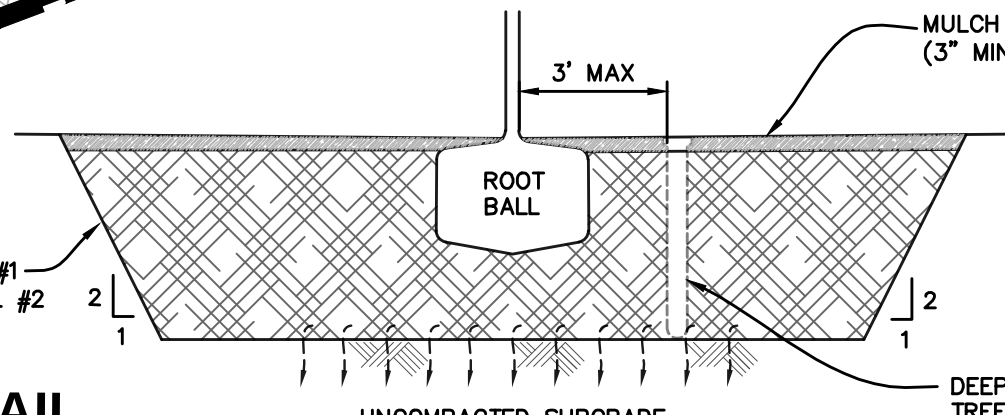
LEGEND:

- DMA BOUNDARY
- 30' CANOPY TREE IN 26'x20' TREE WELL#1 WITH 3" THICK AMENDED SOIL. SOIL VOLUME=1,440 FT³
- 20' CANOPY TREE IN 15'x20' TREE WELL#2 WITH 2.5' THICK AMENDED SOIL. SOIL VOLUME=750 FT³
- BIO-FILTRATION BASIN WITH PARTIAL RETENTION (PR-1) (760 SF BOTTOM AREA)



TREE WELL DETAIL

NO SCALE



SECTION A-A
NO SCALE

ACCESS TO MAINTAIN
THE STRUCTURAL BMP

DMA 8
DE-MINIMUS
240 SF

DMA 5
SELF-MITIGATING
0.11 AC

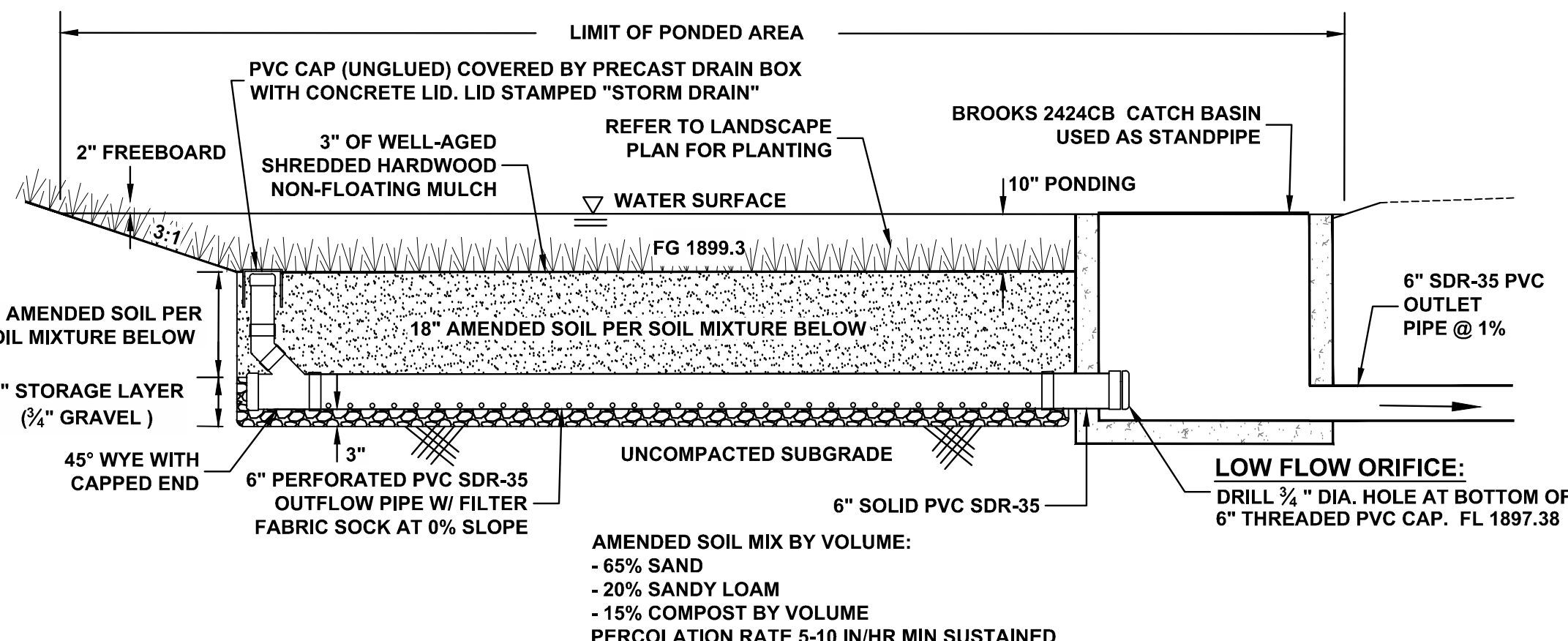
DMA 1
SELF-RETAINING
TREE WELL #1
0.36 AC

DMA 2
SELF-RETAINING
TREE WELL #2
0.19 AC

DMA 6
SELF-MITIGATING
0.39 AC

DMA 3
SELF-RETAINING
BIOFILTRATION BASIN
0.67 AC

DMA 4
SELF-MITIGATING
0.28 AC



BIOFILTRATION BASIN WITH PARTIAL RETENTION (PR-1) DETAIL
NO SCALE

GRADING PLAN CERTIFICATION:

I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: LAWRENCE W. WALSH DATE:

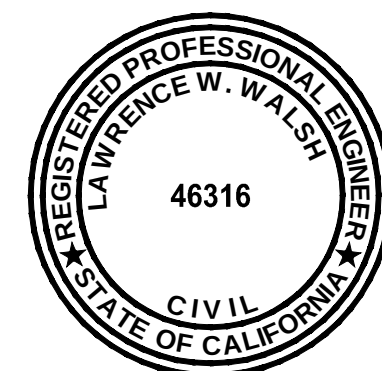
RCE NO.: 46316 EXPIRES 12/31/20

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES DATE:

Walsh Engineering & Surveying, Inc.
607 Aldwych Road, El Cajon, CA 92020
(619) 588-6747 (619) 792-1232 Fax

COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 5	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	5 SHEETS
			DRAINAGE MANAGEMENT AREA PLAN:		
			HOPKINS RESIDENCE		
			CALIFORNIA COORDINATE INDEX 234-1839 (NAD)		
			SEE CERTIFICATION		
			APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER		
			ENGINEER OF WORK LAWRENCE W. WALSH RCE 46316		
			GRADING PERMIT NO. PDS2019-LDGRMN-20218		



GENERAL NOTES

- ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF COUNTY GRADING ORDINANCE SECTION 87.101 THROUGH 87.804.
- 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.
- REGARDLESS OF WHICH BMPs ARE IMPLEMENTED, ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED AND MAINTAINED WITH GROUND COVER OR OTHER PLANTING IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS TO PROTECT THE SLOPES AGAINST EROSION AND INSTABILITY. PLANTING SHALL COMMENCE AS SOON AS SLOPES ARE COMPLETED.
- 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
AT&T TELEPHONE
CATV
SEWER (NONE-ON SEPTIC)
WATER (PADRE DAM)

PHONE NUMBER:
(800) 227-2600
(800) 288-2020
(800) 234-3993
N/A
(619) 258-4600
- A SOILS REPORT WITH COMPACTION TESTS IS REQUIRED FOR ALL FILL OVER 12" IN DEPTH. PDS FORM 73 MINOR GRADING CERTIFICATION AND A COPY OF THE COMPACTION REPORT IS REQUIRED TO BE SUBMITTED PRIOR TO ROUGH GRADING APPROVAL.
- NATURAL DRAINAGE SHALL NOT BE DIVERTED OR CONCENTRATED ONTO ADJACENT PROPERTY.
- ALL GRADING DETAILS SHALL BE IN CONFORMANCE WITH THE FOLLOWING SAN DIEGO COUNTY DESIGN STANDARDS OR REGIONAL STANDARD DRAWINGS:

DS-08 LOT GRADING
DS-10 GRADING OF SLOPES
DS-11 REQUIRED SETBACKS
D-40 RIP RAP ENERGY DISSIPATER
D-75 DRAINAGE DITCH
- 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. ISSUANCE OF A GRADING PERMIT SHALL CONSTITUTE AN AUTHORIZATION TO PERFORM ONLY THAT WORK WHICH IS DESCRIBED OR SHOWN ON THE GRADING PERMIT APPLICATION AND APPROVED GRADING PLANS.
- 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 (PDS).
- 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--2:1
FILL--2:1
EXCAVATION: 4,930 C.Y. FILL: 4,930 C.Y. IMPORT: 0 C.Y. EXPORT: 0 C.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 WORKS.
- REGARDLESS OF WHICH BMPs ARE IMPLEMENTED, ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED AND MAINTAINED WITH GROUND COVER OR OTHER PLANTING IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS TO PROTECT THE SLOPES AGAINST EROSION AND INSTABILITY. PLANTING SHALL COMMENCE AS SOON AS SLOPES ARE COMPLETED.
- A CONSTRUCTION PERMIT MUST BE OBTAINED FOR ANY WORK IN THE COUNTY ROAD RIGHT OF WAY. FUTURE DEVELOPMENT OF THIS PROPERTY MAY REQUIRE ADDITIONAL PERMITS AND REVIEW BY THE COUNTY OF SAN DIEGO.
- NO SEALANT SHALL BE APPLIED TO CONSTRUCTED PERMEABLE SURFACES.

- THE ENGINEER-OF-WORK SHALL COMPLY WITH ALL PROJECT APPLICABLE LAWS THAT INCLUDE, BUT ARE NOT LIMITED TO, HEALTH, SAFETY, AND ENVIRONMENTAL LAWS, ORDINANCES, AND REGULATIONS RELATING TO THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, AND U.S. FEDERAL GOVERNMENT. THE PROJECT IS SUBJECT TO ENFORCEMENT UNDER PERMITS FROM THE SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) AND THE COUNTY OF SAN DIEGO WATERSHED PROTECTION, STORMWATER MANAGEMENT, AND DISCHARGE CONTROL ORDINANCE NO. 10410, COUNTY OF SAN DIEGO HYDRAULIC DESIGN MANUAL, AND ALL OTHER APPLICABLE ORDINANCES AND STANDARDS FOR THE LIFE OF THIS PERMIT. THE PROJECT SITE SHALL BE IN COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS REFERENCED ABOVE AND ALL OTHER APPLICABLE ORDINANCES AND STANDARDS. THIS INCLUDES COMPLIANCE WITH THE APPROVED STORM WATER QUALITY MANAGEMENT PLAN (SWQMP), ALL REQUIREMENTS FOR LOW IMPACT DEVELOPMENT (LID), HYDROMODIFICATION, DETENTION FACILITIES, MATERIALS AND WASTES CONTROL, EROSION CONTROL, AND SEDIMENT CONTROL ON THE PROJECT SITE.
- 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.
- 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 THIS GRADING PLAN IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES TO THESE PLANS.
- THE APPLICANT IS RESPONSIBLE FOR THE ROAD MAINTENANCE (SWEEPING AS NECESSARY) AND REPAIR 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.

ENVIRONMENTAL NOTES

NOTICE: THE SUBJECT PROPERTY CONTAINS HABITAT WHICH MAY BE USED FOR NESTING BY MIGRATORY BIRDS. ANY GRADING, BRUSHING OR CLEARING CONDUCTED DURING THE MIGRATORY BIRD BREEDING SEASON, FEBRUARY 1 - AUGUST 31, HAS A POTENTIAL TO IMPACT NESTING OR BREEDING BIRDS IN VIOLATION OF THE MIGRATORY BIRD TREATY ACT. THE APPLICANT MAY SUBMIT EVIDENCE THAT NESTING OR BREEDING MIGRATORY BIRDS WILL NOT BE AFFECTED BY THE GRADING, BRUSHING OR CLEARING TO THESE AGENCIES: CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, 3883 RUFFIN RD., SAN DIEGO, CA 92123, (858) 467-4201, [HTTP://WWW.DFG.CA.GOV/](http://www.dfg.ca.gov/); AND UNITED STATES FISH AND WILDLIFE SERVICE, 2177 SALK AVENUE, SUITE 250, CARLSBAD, CALIFORNIA 92008, (760) 431-9440, [HTTP://WWW.FWS.GOV/](http://www.fws.gov/).

NOTICE: IN ORDER TO AVOID IMPACTS TO NESTING MIGRATORY BIRDS AND RAPTORS, WHICH ARE A SENSITIVE BIOLOGICAL RESOURCE PURSUANT TO CEQA, THE MBTA AND FISH AND WILDLIFE CODE, BREEDING SEASON AVOIDANCE SHALL BE IMPLEMENTED ON ALL PLANS. THERE SHALL BE NO BRUSHING, CLEARING AND/OR GRADING SUCH THAT NONE WILL BE ALLOWED DURING THE BREEDING SEASON OF MIGRATORY BIRDS OR RAPTORS, BETWEEN JANUARY 15 AND AUGUST 31. THE DIRECTOR OF PDS MAY WAIVE THIS CONDITION, THROUGH WRITTEN CONCURRENCE FROM THE US FISH AND WILDLIFE SERVICE AND THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, PROVIDED THAT NO NESTING OR BREEDING BIRDS ARE PRESENT WITHIN 300 FEET OF THE BRUSHING, CLEARING OR GRADING (500 FEET FOR RAPTORS) BASED ON A SURVEY CONDUCTED BY A COUNTY-APPROVED BIOLOGICAL CONSULTANT WITHIN SEVEN DAYS PRIOR TO THE PROPOSED START OF CLEARING/GRADING. IF NESTING BIRDS ARE PRESENT IN THE VICINITY, PRIOR TO GRANTING PERMISSION PDS AND THE WILDLIFE AGENCIES MAY REQUIRE AVOIDANCE MEASURES SUCH AS: BUT NOT LIMITED TO, STAKING AND POSTING AN AREA 300 FEET FROM THE NEST TO PROHIBIT ALL CLEARING, GRUBBING AND CONSTRUCTION WORK WITHIN THE PERIMETER UNTIL THE QUALIFIED BIOLOGIST DETERMINES THAT THE NESTS ARE NO LONGER OCCUPIED WITH WRITTEN NOTIFICATION TO THE APPROVAL OF THE DIRECTOR OF PDS.

OWNERS CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS.

IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETIONS OF THE IMPROVEMENTS.

BY: _____ DATE: _____
ASSESSOR'S PARCEL NUMBER: 520-240-20
NAME: MATTHEW R. HOPKINS, TRUSTEE OF THE HOPKINS TRUST DATED 3-5-2014
ADDRESS: 7696 EAGLE RIDGE COURT
SAN DIEGO, CA 92119
PHONE NUMBER: (619) 861-6556



OWNER'S / PERMITTEE'S

NAME: MATTHEW R. HOPKINS & CHERI L. HOPKINS, TRUSTEES OF
THE HOPKINS TRUST DATED MARCH 5, 2014
ADDRESS: 7696 EAGLE RIDGE COURT
SAN DIEGO, CA 92119
TELEPHONE NO: (619) 861-6556
SHORT LEGAL DESCRIPTION: LOT 99, PER MAP 010877
A.P.N. NO: 520-240-20
SITE ADDRESS: 2824 VIA ASOLEADO, ALPINE, CA 91901

FIRE DEPARTMENT APPROVAL

FIRE DEPT. / DISTRICT ALPINE FIRE PROTECTION
DISTRICT

APPROVED BY: _____

DATE: _____

DECLARATION OF RESPONSIBLE CHARGE

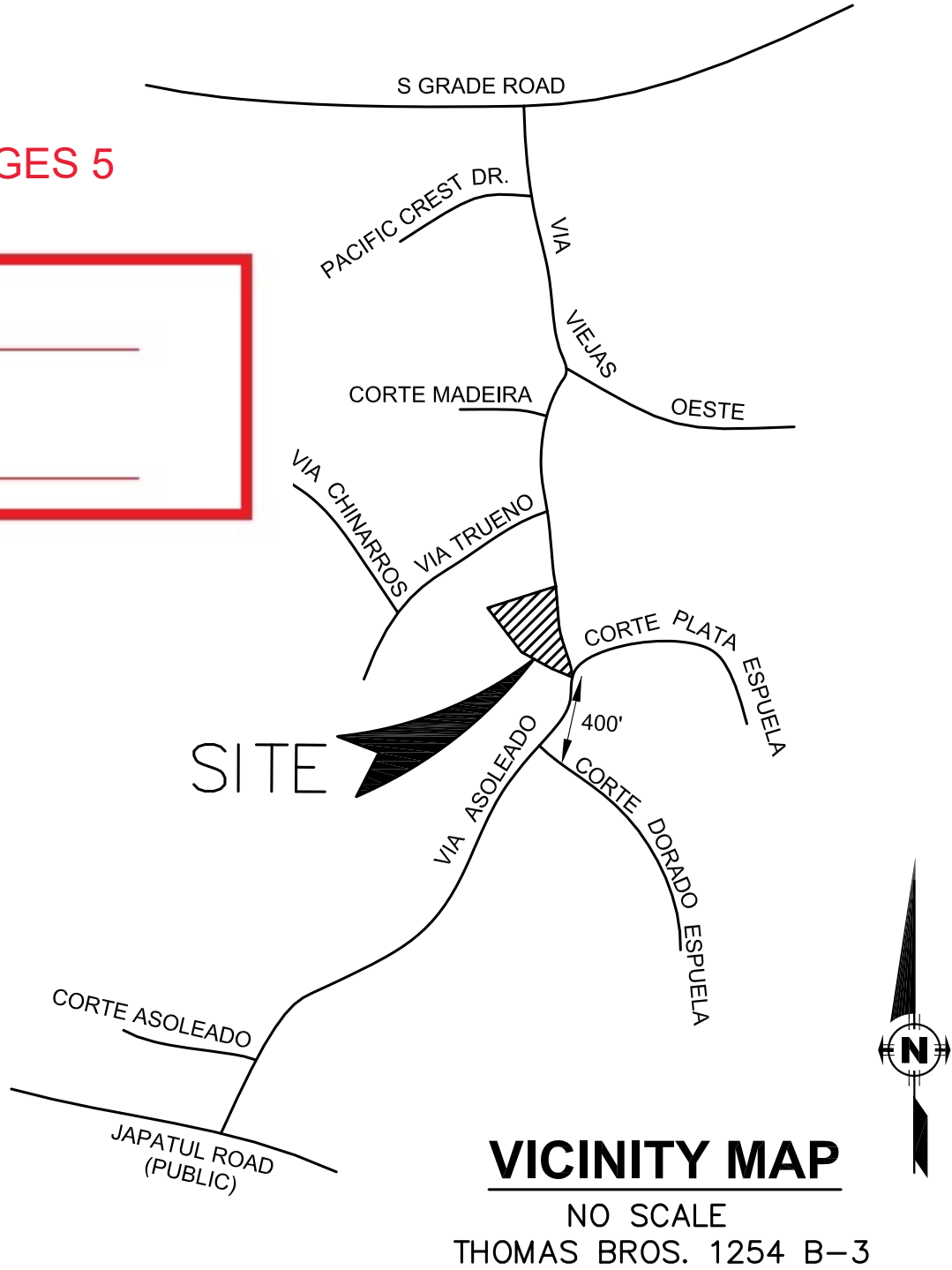
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

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: _____ DATE: _____
RCE NO: 46316 EXPIRES: 12/31/20

TOTAL PAGES 5

BUYER x _____
BUYER x _____



SOILS ENGINEER CERTIFICATION

THIS GRADING PLAN HAS BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AS OBTAINED IN OUR SOILS REPORT FOR THIS PROJECT. THE SOILS REPORT SHALL BE CONSIDERED AS A PART OF THIS PLAN, AND ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF SAID REPORT DATED 1-21-19, TITLED GEOTECHNICAL INVESTIGATION (PROJECT NO. 18-1254B3) PREPARED BY EAST COUNTY SOIL CONSULTATION AND ENGINEERING, INC.



MARTIN R. OWEN GE 000658 EXP.12-31-19 DATE
EAST COUNTY SOIL CONSULTATION AND ENGINEERING, INC.
10925 HARTLEY ROAD, SUITE "I"
SANTÉE, CA 92071
(619) 258-7901

GRADING PLAN CERTIFICATION:

I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: _____ DATE: _____
LAWRENCE W. WALSH

RCE NO.: 46316 EXPIRES 12/31/20

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: _____ DATE: _____
FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES

Walsh Engineering & Surveying, Inc.
607 Aldwych Road, El Cajon, CA 92020
(619) 588-6747 (619) 792-1232 Fax

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 LEGEND:

ITEM	STD. DWG.	SYMBOL
EXISTING AC PAVEMENT		
PROPOSED AC PAVEMENT		
PROPOSED PCC PAVEMENT		
2:1 CUT SLOPE		
2:1 FILL SLOPE		
AREA WHERE NO GRADING IS PROPOSED		
PROPERTY LINE		
CUT/FILL LINE		
EXISTING CONTOUR		
PROPOSED CONTOUR		
PROPOSED ELEVATIONS		
PROPOSED BERM	SEE DETAIL ON SHEET 2	
PROPOSED 24"x24" CATCH BASIN WITH STEEL GRATE ("BROOKS" 2424CB)		
PROPOSED 12"x12" CATCH BASIN WITH STEEL GRATE ("BROOKS" 1212CB)		
PROPOSED 12"x12" CATCH BASIN WITH STEEL COVER ("BROOKS" 1212CB)		
PROPOSED 6" PCC CURB		
PROPOSED RIP RAP	RSD D-40	

SHEET INDEX

SHEET 1	TITLE SHEET
SHEET 2	GRADING PLAN
SHEET 3	EROSION CONTROL AND CONSTRUCTION BMP STANDARD NOTES AND DETAILS
SHEET 4	EROSION CONTROL AND CONSTRUCTION BMP PLAN
SHEET 5	DRAINAGE MANAGEMENT AREA SHEET

DISTURBED AREA CALCS

PAD + SLOPES: 46,800 SF
DRIVEWAY: 15,750 SF
PRIMARY SEPTIC: 5,590 SF
FIRE CLEARING: 0 SF
TOTAL: 68,140 SF
IF ≥1 AC, PROVIDE WQID #: _____

DWELLING UNITS

INDICATE THE NUMBER OF DWELLING UNITS IN PROJECT: 1
INDICATE THE NUMBER OF GRADED PADS IN PROJECT: 1

STORMWATER POLLUTANT CONTROL AND HYDROMODIFICATION MANAGEMENT CONTROL BMP'S					
DESCRIPTION/TYPE	SHEET	BMP ID #	MAINTENANCE CATEGORY	MAINTENANCE AGREEMENT REC. DOC. #	REVISIONS
2 TREE WELLS	5	TREE WELL #1&2	N/A		
BIOFILTRATION BASIN	5	PR-1	CAT 1		

* BMP'S APPROVED AS PART OF THIS STORMWATER QUALITY MANAGEMENT PLAN (SWQMP) DATED 11/05/2019 ON FILE WITH DPW. ANY CHANGES TO THE ABOVE BMP'S WILL REQUIRE SWQMP REVISION AND PLAN CHANGE APPROVALS.

PERMITS

LANDSCAPE PERMIT NO. LP-19-018
WQID/NOI NO. _____ SWPPP RISK LEVEL _____
TENTATIVE MAP NO. N/A

BENCH MARK

DESCRIPTION: A 2 1/2" BRASS DISC STAMPED "LS 4300" SET 0.5' BELOW ST. LEVEL IN A STD. ST. SURVEY MON.
LOCATION: INTERSECTION OF CL OF SOUTH GRADE RD & CL OF SHAYLENE WAY
RECORD FROM: MAP 11531
ELEVATION: 1819.20 DATUM: NGVD 29

PRIVATE CONTRACT

SHEET 1 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 5 SHEETS

MINOR GRADING PLAN FOR:

HOPKINS RESIDENCE

CALIFORNIA COORDINATE INDEX 234-1839 (NAD)

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

SEE CERTIFICATION

ENGINEER OF WORK

LAWRENCE W. WALSH R.C.E. 46316

GRADING PERMIT NO. PDS2019-LDGRMN-20218



EROSION CONTROL NOTES

- 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 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 SLOPE 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.
- SAND 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 THE SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE SAND 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.

PLANTING & IRRIGATION NOTES

ALL PERMANENT AND TEMPORARY EROSION CONTROL PLANTING AND IRRIGATION SHALL BE INSTALLED AND MAINTAINED AS REQUIRED BY SECTIONS 87.417 AND 87.418 OF THE COUNTY'S GRADING ORDINANCE AND SHALL BE COMPLIANT WITH THE COUNTY'S WATER CONSERVATION IN LANDSCAPE ORDINANCE, THE WATER EFFICIENT LANDSCAPE DESIGN MANUAL, AND THE BMP DESIGN MANUAL:

A. SLOPE EROSION CONTROL:

- AT A MINIMUM, ALL MANUFACTURED SLOPE AREAS SHALL BE COVERED WITHIN 10 DAYS OF COMPLETION OF GRADING WITH HYDROSEED/MULCH, PUNCHED STRAW MULCH, JUTE NETTING OR OTHER APPROVED GEOTEXTILE MATERIAL CAPABLE OF CONTROLLING SURFACE SOIL EROSION;
 - EXCEPT WHERE APPROVED OTHERWISE, ALL SLOPES AND ANY OTHER AREAS DISTURBED IN CONJUNCTION WITH GRADING ACTIVITIES SHALL BE MAINTAINED UNTIL VEGETATION IS WELL ESTABLISHED, WITH COVERAGE EQUAL TO AT LEAST 70 PERCENT OF COVERAGE, AS COMPARED TO THE NATIVE BACKGROUND PLANTS IS ACHIEVED. THIS THRESHOLD MUST BE MET BEFORE OCCUPANCY OF THE SITE WILL BE PERMITTED;
 - A MINIMUM OF 50 PERCENT OF THE TOTAL SLOPE AREAS OF MANUFACTURED SLOPES SHALL BE PLANTED WITH DEEP ROOTING PLANTINGS (I.E., THOSE WITH A TYPICAL ROOT DEPTH OF APPROXIMATELY 5 FEET OR GREATER). FOR SEEDED PLANTINGS, AT LEAST 50 PERCENT OF THE VIABLE SEED COUNT SHALL BE DEEP ROOTING SPECIES;
- ALL PLANT MATERIALS ON MANUFACTURED SLOPES SHALL BE APPROPRIATE TO THE SITE CONDITIONS, SHALL BE WATER EFFICIENT WHEN ESTABLISHED AND SHALL BE ADEQUATELY SPACED TO CONTROL SOIL EROSION;
 - ALL SLOPES IN EXCESS OF 15 FEET SHALL BE PLANTED WITH ROOTED CONTAINER STOCK AT AN AVERAGE RATE OF ONE PER 100 SQUARE FEET UNLESS APPROVED OTHERWISE. CONTAINERS SHALL BE A MINIMUM OF ONE GALLON FOR SHRUBS AND FIVE GALLON FOR TREES. ALL CONTAINER STOCK SHALL BE PROVIDED WITH A TEMPORARY IRRIGATION SYSTEM;
 - SLOPES GREATER THAN 25 PERCENT SHALL NOT BE IRRIGATED WITH AN IRRIGATION SYSTEM WITH A PRECIPITATION RATE EXCEEDING 0.75 INCHES PER HOUR.

B. IRRIGATION

- ALL IRRIGATION SYSTEMS SHALL BE INSTALLED TO AVOID RUNOFF, SEEPAGE, LOW HEAD DRAINAGE, OVER-SPRAY OR OTHER SIMILAR CONDITIONS ONTO ADJACENT PROPERTY, NON-IRRIGATED AREAS, WALKS, ROADWAYS OR STRUCTURES;
- APPROVED BACKFLOW PREVENTION UNITS ARE REQUIRED ON ALL POTABLE WATER IRRIGATION SYSTEMS;
- AFTER PLANT ESTABLISHMENT, THE IRRIGATION SYSTEM IS TO PROVIDE SUFFICIENT WATER TO SUSTAIN PLANTS IN A HEALTHY, GROWING CONDITION;
- LANDSCAPE WATER METERS, SHALL BE INSTALLED FOR ALL NON-RESIDENTIAL IRRIGATED LANDSCAPES OF 1,000 SQ. FT. OR MORE, AND FOR ALL RESIDENTIAL IRRIGATED LANDSCAPES OF 5,000 SQ. FT. OR GREATER. A LANDSCAPE WATER METER SHALL BE EITHER A CUSTOMER SERVICE METER DEDICATED TO LANDSCAPE USE PROVIDED BY THE LOCAL WATER PURVEYOR; OR A PRIVATELY OWNED METER OR SUB-METER;
- FLOW SENSORS THAT DETECT AND REPORT HIGH FLOW CONDITIONS CREATED BY SYSTEM DAMAGE OR MALFUNCTION ARE REQUIRED FOR ALL NON-RESIDENTIAL LANDSCAPES, AND RESIDENTIAL LANDSCAPES OF 5,000 SQ. FT. OR LARGER;
- MASTER SHUT-OFF VALVES ARE REQUIRED;
- AUTOMATIC CONTROL SYSTEMS ARE REQUIRED, AND MUST BE ABLE TO ACCOMMODATE ALL ASPECTS OF THE INSTALLED EROSION CONTROL LANDSCAPE, INCLUDING MULTIPLE SCHEDULES, REPEAT CYCLES, EVAPOTRANSPIRATION OR SOIL MOISTURE SENSING AND RAIN SENSING OVERRIDE DEVICES. CONTROL MECHANISMS FOR AN EVAPOTRANSPIRATION (WEATHER BASED) SYSTEM OR SOIL MOISTURE DETECTING SYSTEMS, UTILIZING NON-VOLATILE MEMORY SHALL BE ACCOMMODATED WITHIN THE CONTROLLER ENCLOSURE. BATTERY OPERATED VALVES OR SOLAR POWERED CONTROLLERS MAY BE USED IN AREAS WHERE ELECTRICITY IS NOT YET AVAILABLE, HOWEVER, WHEN AVAILABLE, SYSTEMS SHALL BE CONVERTED;

- ALL IRRIGATION SYSTEMS SHALL BE ADJUSTED SEASONALLY AND AS WEATHER AND PLANT CONDITIONS WARRANT;
 - SHUTOFF VALVES SHALL BE PROVIDED AT POINTS OF CONNECTION TO DIVIDE THE IRRIGATION SYSTEM INTO CONTROLLABLE UNITS. CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED FOR ALL IRRIGATION SYSTEMS;
 - ALL PIPE AND WIRE UNDER VEHICULAR PAVING SHALL BE INSTALLED IN PVC SCHEDULE 40 SLEEVES. SLEEVES SHALL BE AT LEAST TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLES TO BE ENCLOSED;
 - PERMANENT ON-GRADE SYSTEMS MAY ONLY BE ALLOWED FOR AREAS WITH HIGHLY EROSION OR ROCKY SOILS AND SHALL NOT BE ALLOWED ADJACENT TO PEDESTRIAN TRAFFIC;
 - ALL ON-GRADE LINES SHALL BE SECURED TO SLOPES EVERY TEN FEET OR LESS. THE ENDS OF ALL LATERALS SHALL ALSO BE STAKED;
 - ON-GRADE LATERAL PIPING IS ALLOWED FOR TEMPORARY SYSTEMS;
 - ALL REQUIRED LANDSCAPING SHALL BE PLANTED AND IRRIGATION SYSTEMS INSTALLED PRIOR TO THE ROUGH GRADING INSPECTION. THE COUNTY OFFICIAL SHALL DETERMINE AT FINAL GRADING INSPECTION THAT PLANTING IS ESTABLISHED AND THAT ALL IRRIGATION SYSTEMS ARE OPERATIONAL;
- C. SLOPE HYDROSEEDING MIX SHALL CONSIST OF THE FOLLOWING:
- NON-IRRIGATED SEED MIX SHALL NOT BE ALLOWED AND NO INVASIVE, FIRE PRONE SPECIES SHALL BE INCLUDED;
 - SEED MIX SHALL CONSIST OF NO LESS THAN:
 - ALL SEED MATERIALS SHALL BE TRANSPORTED TO THE JOBSITE IN UNOPENED CONTAINERS WITH THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE CERTIFICATION TAG ATTACHED TO, OR PRINTED ON SAID CONTAINERS.
 - NON-PHYTO-TOXIC WETTING AGENTS MAY BE ADDED TO THE HYDROSEED SLURRY AT THE DISCRETION OF THE CONTRACTOR.
 - TYPE 1 MULCH APPLIED AT THE RATE OF NO LESS THAN 2000 LBS. PER ACRE. TYPE 6 MULCH (STRAW) MAY BE SUBSTITUTED, ALL OR PART, FOR HYDRAULICALLY APPLIED FIBER MATERIAL. WHEN STRAW IS USED IT MUST BE ANCHORED TO THE SLOPE BY MECHANICALLY PUNCHING NO LESS THAN 50% OF THE STRAW INTO THE SOIL.
 - FERTILIZER CONSISTING OF AMMONIUM PHOSPHATE, SULFATE, 16-20-0, WITH 15% SULPHUR APPLIED AT THE RATE OF 500 LBS. PER ACRE.
 - AREAS TO BE HYDROSEED SHALL BE PREPARED PRIOR TO HYDROSEEDING BY:
 - ROUGHENING THE SURFACE TO BE PLANTED BY ANY OR COMBINATION OF:
 - TRACK WALKING SLOPES STEEPER THAN 6:1
 - HARROWING AREAS 6:1 OR FLATTER THAT ARE SUFFICIENTLY FRIABLE.
 - RIPPING AREAS THAT WILL NOT BREAK UP USING ITEMS a.a. OR a.b. ABOVE.
 - CONDITION THE SOILS SO THAT IT IS SUITABLE FOR PLANTING BY:
 - ADJUSTING THE SURFACE SOIL MOISTURE TO PROVIDE A DAMP BUT NOT SATURATED SEED BED.
 - THE ADDITION OF SOIL AMENDMENTS, PH ADJUSTMENT, LEACHING OR COVERING SALINE SOILS TO PROVIDED VIABLE CONDITIONS FOR GROWTH.
 - HYDROSEEDED AREAS SHALL BE MAINTAINED TO PROVIDE A VIGOROUS GROWTH UNTIL THE PROJECT IS PERMANENTLY LANDSCAPED OR, FOR AREAS WHERE HYDROSEEDING IS THE PERMANENT LANDSCAPING, UNTIL THE PROJECT IS COMPLETED AND ALL GRADING BONDS RELEASED.

HYDROSEED NOTES:

- PRIOR TO THE ACCEPTANCE OF THE HYDROSEEDED AREAS BY THE COUNTY, A CERTIFICATION REPORT MUST BE SUBMITTED BY A REGISTERED LANDSCAPE ARCHITECT, STATING THAT THE HYDROSEEDING WAS DONE ACCORDING TO THE PROJECT SPECIFICATIONS AND THAT THE GROWTH IS ADEQUATELY ESTABLISHED TO PREVENT EROSION.
- ALL DISTURBED SLOPES TO BE HYDROSEEDED UNLESS OTHERWISE NOTED.

NOTE:

VEGETATION STABILIZATION (PLANTING OR HYDROSEEDING) MAY BE INSTALLED BETWEEN MAY 1ST AND AUGUST 15TH. SLOPE IRRIGATION MUST BE IN PLACE AND TO BE OPERABLE FOR SLOPES >3'. VEGETATION MUST BE WATERED AND ESTABLISHED PRIOR TO OCTOBER 1ST. THE OWNER SHALL SUPPLEMENT VEGETATION WITH BARK OR MULCH BY OCTOBER 1ST IF VEGETATION ESTABLISHMENT DOES NOT OCCUR BY THAT DATE. EROSION CONTROL MEASURES MUST ALSO BE USED WHILE LANDSCAPING IS BEING ESTABLISHED. ESTABLISHED VEGETATION SHALL HAVE A SUBSURFACE MAT OF INTERTWINED MATURE ROOTS WITH A UNIFORM VEGETATION COVERAGE OF 70% OF THE NATURAL VEGETATIVE COVERAGE OR MORE ON ALL DISTURBED AREAS.

ALL SLOPES OVER THREE FEET MUST HAVE ESTABLISHED VEGETATIVE COVER PRIOR TO FINAL PERMIT APPROVAL

MB JB



Walsh Engineering & Surveying, Inc.
607 Aldwych Road, El Cajon, CA 92020
(619) 588-6747 (619) 792-1232 Fax

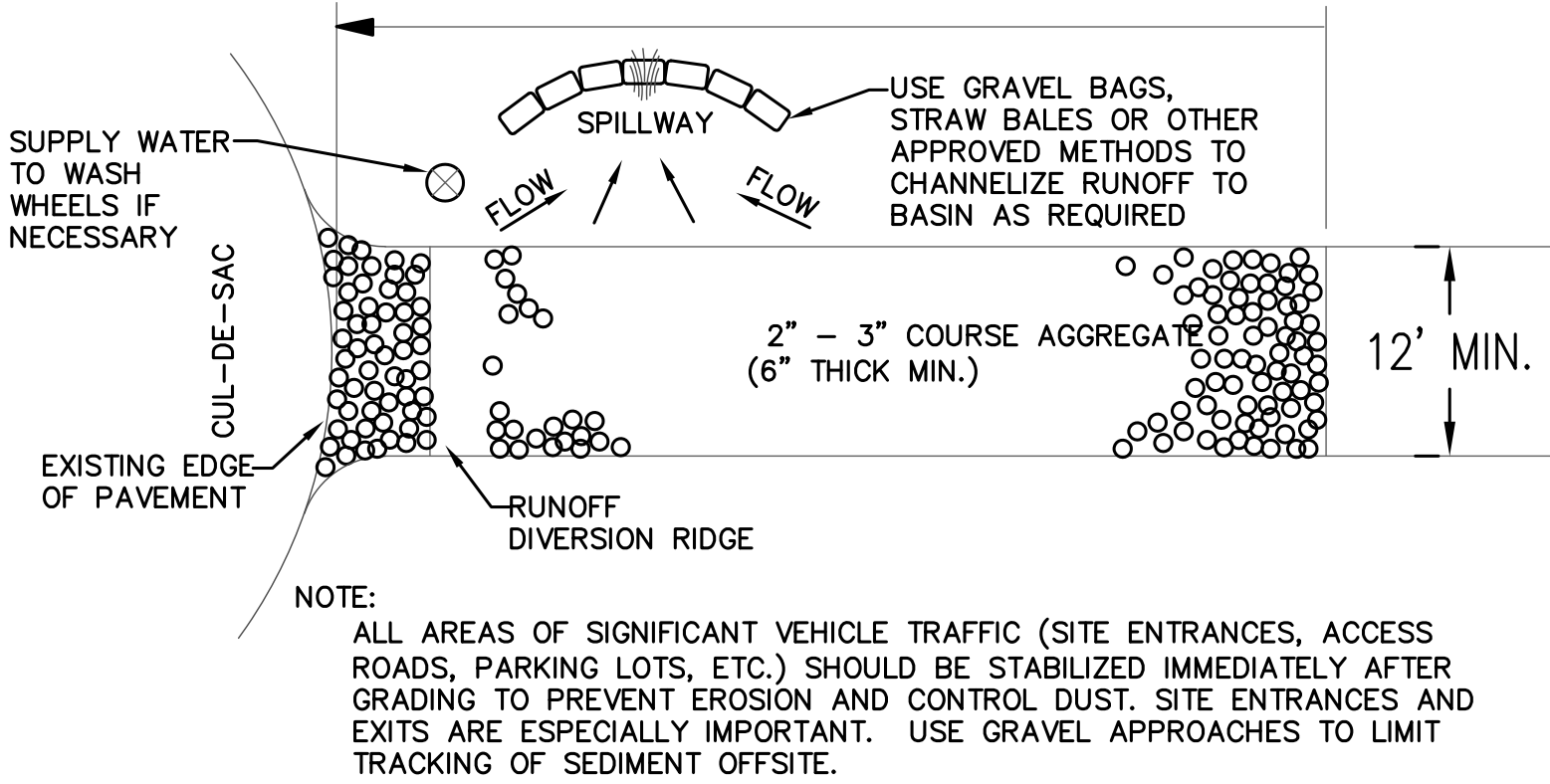
BMP STORMWATER MANAGEMENT NOTES:

- 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% OF ALL SUPPLIES NEEDED FOR BMP MEASURES 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 WITHOUT DEMONSTRATING TO THE SAN DIEGO COUNTY DPW 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 STORMWATER REGULATIONS AT ALL TIMES. THE BMP'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 STORMWATER QUALITY. THE MAINTENANCE OF THE BMP'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMP'S MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED BMP'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
- ON PROJECTS OF GREATER THAN 1 ACRE ADD THE FOLLOWING NOTE: A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND THAT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (R9-2015-0001 AND R9-2015-0100, NPDES NO. CAS0109266) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE NOI NUMBER ASSIGNED BY SWRCB FOR THIS PROJECT IS [W01D#] [ALTERNATIVE: NOT YET ASSIGNED, BUT WILL BE PROVIDED BEFORE A PERMIT IS ISSUED]. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.

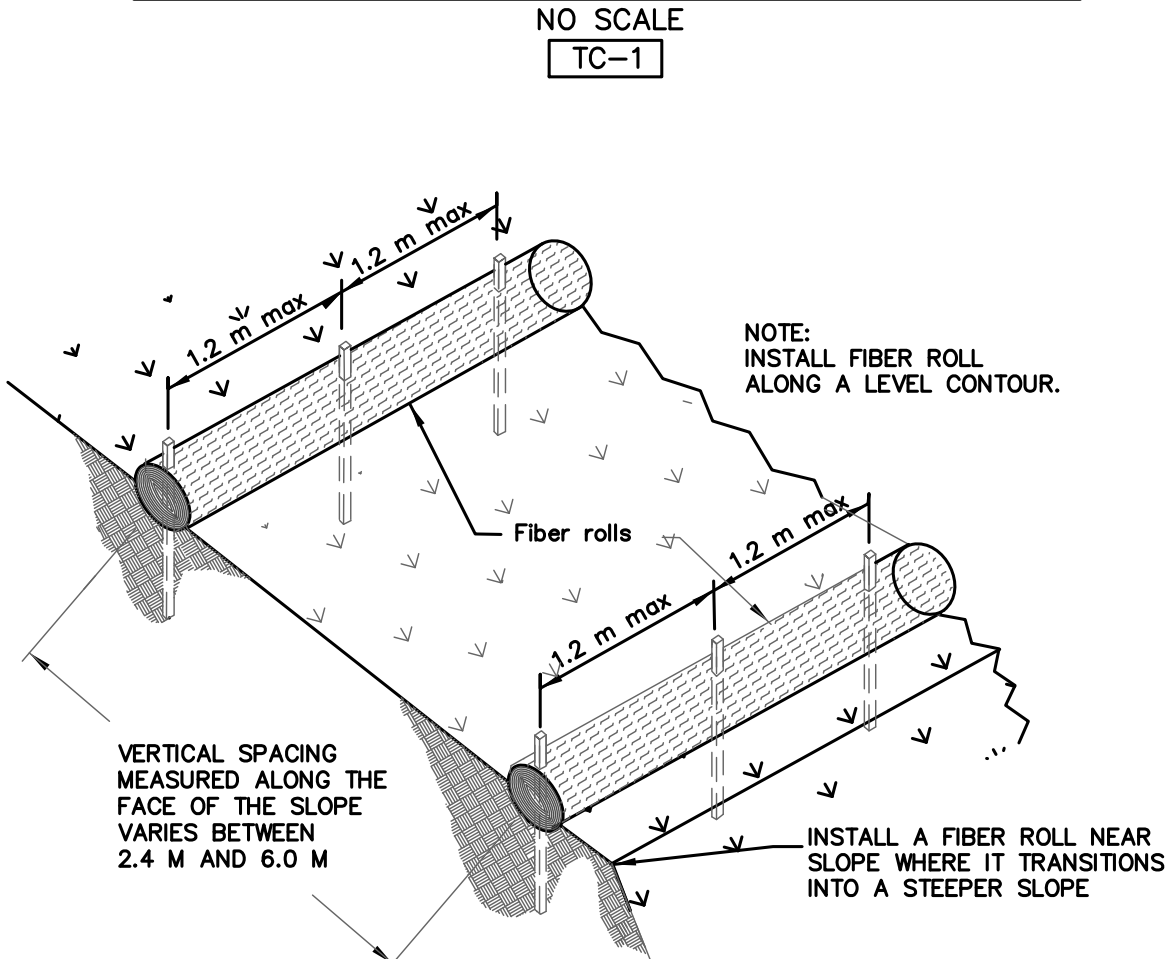
ADDITIONAL BMP NOTES:

- THESE BMPs ARE MANDATORY TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR THESE PLANS.
- NO CHANGES TO THE PROPOSED BMPs ON THIS SHEET WITHOUT PRIOR APPROVAL FROM THE COUNTY.
- NO SUBSTITUTIONS TO THE MATERIAL, TYPES, OR PLANTING TYPES WITHOUT PRIOR APPROVAL FROM THE COUNTY ENGINEER.
- NO OCCUPANCY WILL BE GRANTED UNTIL THE COUNTY STAFF HAS INSPECTED THIS PROJECT FOR APPROPRIATE BMP CONSTRUCTION AND INSTALLATION.
- ALL VEGETATED BMPs SHALL BE SHOWN ON LANDSCAPE PLANS PER PERMIT # _____
- REFER TO THE MAINTENANCE PLAN IN ATTACHMENT 3 OF SWOMP FOR ACCESS TO STRUCTURAL BMPs TO INSPECT AND PERFORM MAINTENANCE, FEATURES PROVIDED TO FACILITATE INSPECTION, MAINTENANCE THRESHOLDS, RECOMMENDED EQUIPMENT TO PERFORM MAINTENANCE, AND SPECIAL TRAINING OR CERTIFICATION REQUIREMENTS FOR INSPECTION AND MAINTENANCE PERSONNEL.
- ALL GRADING CONTOURS SHALL BE CONSISTENT WITH DMA EXHIBIT.
- SEE PROJECT SWOMP FOR ADDITIONAL INFORMATION.

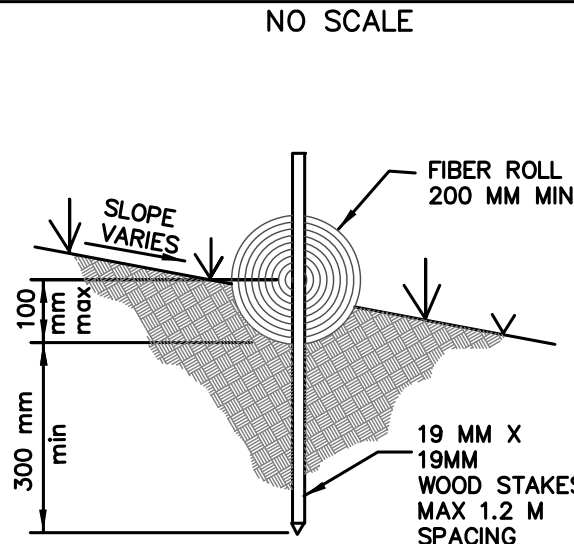
TYPICAL BMP DETAILS



STABILIZED CONSTRUCTION ENTRANCE

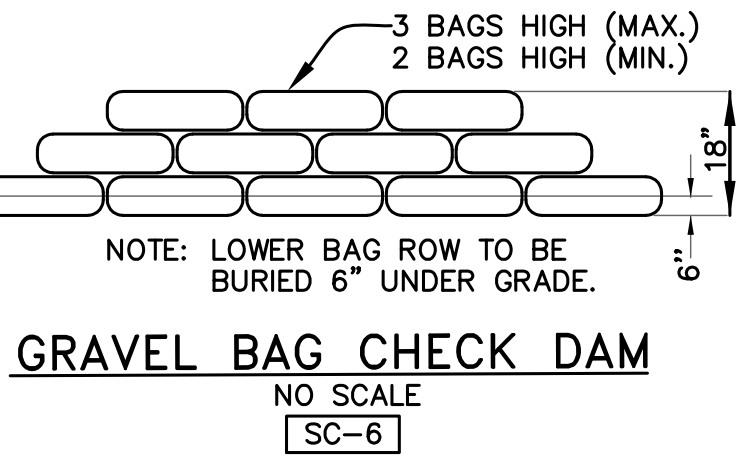


TYPICAL FIBER ROLL INSTALLATION



ENTRENCHMENT DETAIL

NO SCALE



GRAVEL BAG CHECK DAM

NO SCALE
SC-6

GRADING PLAN CERTIFICATION:

I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: _____ DATE: _____
LAWRENCE W. WALSH

RCE NO.: 46316 EXPIRES 12/31/20

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: _____ DATE: _____
FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES

COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 3	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	5 SHEETS
			EROSION CONTROL AND CONSTRUCTION BMP STANDARD NOTES AND DETAILS FOR: HOPKINS RESIDENCE CALIFORNIA COORDINATE INDEX 234-1839 (NAD)		
			APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER	ENGINEER OF WORK LAWRENCE W. WALSH RCE 46316	
			SEE CERTIFICATION	GRADING PERMIT NO. PDS2019-LDGRMN-20218	

BMP LEGEND

- PDS 659 BROW DITCH
PDS 659 BERM
DIRECTION OF LOT DRAINAGE

MATERIALS & WASTE MANAGEMENT CONTROL BMPs

- WM-1 MATERIAL DELIVERY & STORAGE
WM-4 SPILL PREVENTION AND CONTROL
WM-8 CONCRETE WASTE MANAGEMENT
WM-9 SOLID WASTE MANAGEMENT
WM-9 SANITARY WASTE MANAGEMENT
WM-6 HAZARDOUS WASTE MANAGEMENT

TEMPORARY RUNOFF CONTROL BMPs

- SS-2 PRESERVATION OF EXISTING VEGETATION
SS-3 BONDED OR STABILIZED FIBER MATRIX (WINTER)
SS-4 HYDROSEEDING (SUMMER)
SS-6/SS-8 STRAW OR WOOD MULCH
SS-7 PHYSICAL STABILIZATION (WINTER)
SS-10 ENERGY DISSIPATOR
SC-1 SILT FENCE
SC-2 SEDIMENT / DESILTING BASIN
SC-5 FIBER ROLLS
SC-6/SC-8 GRAVEL OR SAND BAGS
SC-7 STREET SWEEPING AND VACUUMING
SC-10 STORM DRAIN INLET PROTECTION
NS-2 DEWATERING FILTRATION
TC-1 STABILIZED CONSTRUCTION ENTRANCE
TC-2 CONSTRUCTION ROAD STABILIZATION
TC-3 ENTRANCE / EXIT TIRE WASH

POST CONSTRUCTION SITE DESIGN BMPs

- 4.3.1 MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES
4.3.2 CONSERVE NATURAL AREAS, SOILS, AND VEGETATION
4.3.3 MINIMIZE IMPERVIOUS AREA
4.3.4 MINIMIZE SOIL COMPACTION
4.3.5 IMPERVIOUS AREA DISPERSION
4.3.6 RUNOFF COLLECTION
4.3.7 LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES
4.3.8 HARVESTING AND USING PRECIPITATION

POST CONSTRUCTION SOURCE CONTROL BMPs

- 4.2.1 PREVENTION OF ILLICIT DISCHARGES INTO THE MS4
4.2.2 STORM DRAIN STENCILING AND POSTING OF SIGNAGE
4.2.3 PROTECTED OUTDOOR MATERIALS STORAGE AREAS
4.2.4 PROTECTED MATERIALS STORED IN OUTDOOR WORK AREAS
4.2.5 PROTECT TRASH STORAGE AREAS
4.2.6 ADDNL BMPs BASED ON POTENTIAL RUNOFF POLLUTANTS:
A ON-SITE STORM DRAIN INLETS
B INTERIOR FLOOR DRAINS & ELEVATOR SHAFT SUMPS
C INTERIOR PARKING GARAGES
D NEED FOR FUTURE INDOOR & STR. PEST CONTROL
E LANDSCAPE/OUTDOOR PESTICIDE USE
F POOLS, SPAS, PONDS, FOUNTAINS, & WATER FEATURES
G FOOD SERVICE
H TRASH OR REFUSE AREAS
I INDUSTRIAL PROCESSES
J OUTDOOR STORAGE OF EQUIP. OR MATERIALS
K VEHICLE AND EQUIPMENT CLEANING
L VEHICLE/EQUIPMENT REPAIR AND MAINTENANCE
M FUEL DISPENSING AREAS
N LOADING DOCKS
O FIRE SPRINKLER TEST WATER
P MISCELLANEOUS DRAIN OR WASH WATER
Q PLAZAS, SIDEWALKS, DRIVEWAYS, AND PARKING LOTS

LEGEND

ITEM	SYMBOL	QUANTITY
FIBER ROLLS	FR	840 LF
GRAVEL BAGS		300 EA
HYDROSEED		18,100 SF
STABILIZED CONSTRUCTION ENTRANCE		1,400 SF
MULCH		23,000 SF

GRADING PLAN CERTIFICATION:

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BY: LAWRENCE W. WALSH DATE:

RCE NO.: 46316 EXPIRES 12/31/20

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES DATE:

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 4	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	5 SHEETS
EROSION CONTROL AND CONSTRUCTION BMP PLAN FOR:		
HOPKINS RESIDENCE		
CALIFORNIA COORDINATE INDEX 234-1839 (NAD)		
APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER	ENGINEER OF WORK LAWRENCE W. WALSH R.C.E. 46316	
SEE CERTIFICATION	GRADING PERMIT NO: PDS2019-LDGRMN-20218	

PROPOSED SITE FEATURES & CONSTRUCTION BMPs

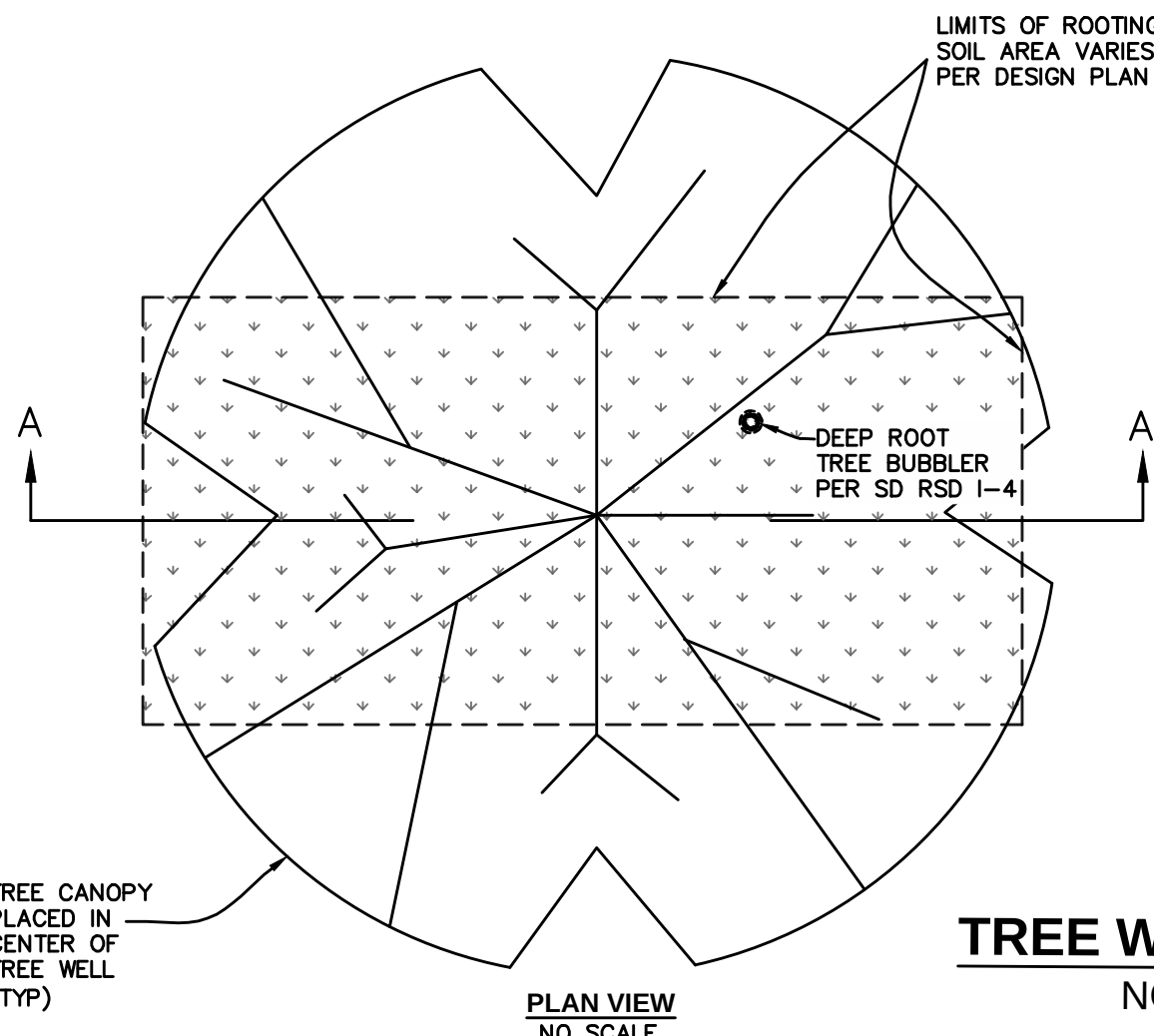
- SD-G NATURAL AREAS, SOILS, AND VEGETATION
- SD-B PATIOS, DECKS, & COURTYARDS
- SD-B ROOFTOP AREAS
- SD-J LANDSCAPED AREAS
- SS-4 HYDROSEEDING (SUMMER)
- SS-6/SS-8 STRAW OR WOOD MULCH
- SS-10 ENERGY DISSIPATOR
- SC-5 FIBER ROLLS
- SC-6/SC-8 GRAVEL OR SAND BAGS
- SC-10 STORM DRAIN INLET PROTECTION
- TC-1 STABILIZED CONSTRUCTION ENTRANCE
- WM-1 MATERIAL DELIVERY & STORAGE
- WM-4 SPILL PREVENTION AND CONTROL
- WM-8 CONCRETE WASTE MANAGEMENT
- WM-9 SOLID WASTE MANAGEMENT
- WM-9 SANITARY WASTE MANAGEMENT
- WM-6 HAZARDOUS WASTE MANAGEMENT

EXISTING SITE FEATURES

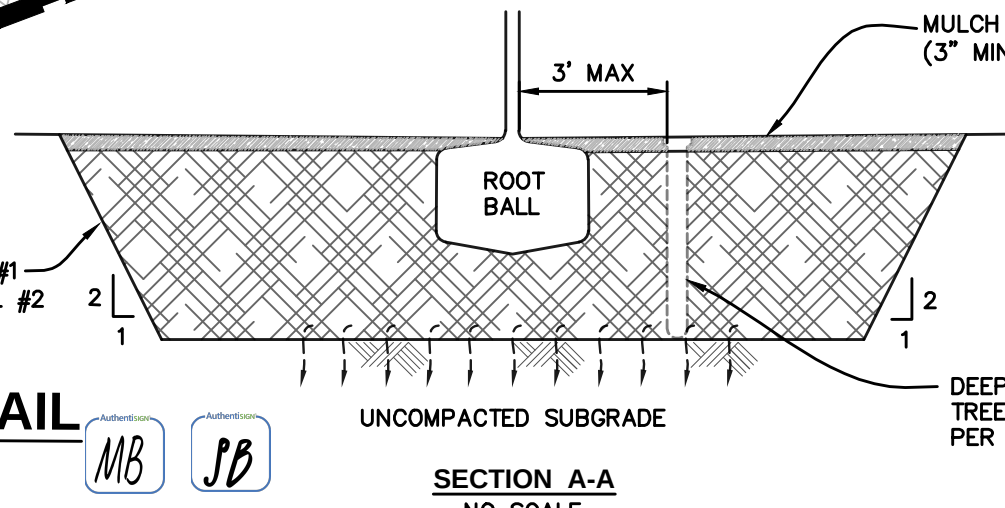
SOIL: TYPE C
DEPTH TO GROUNDWATER: NONE ENCOUNTERED
CRITICAL SEDIMENT YIELD COARSE AREAS: NONE
EXISTING IMPERVIOUS AREA: 0 SF
PROPOSED IMPERVIOUS AREA: 24,984 SF

LEGEND:

- DMA BOUNDARY
- 30' CANOPY TREE IN 26'x20' TREE WELL#1 WITH 3" THICK AMENDED SOIL. SOIL VOLUME=1,440 FT³
- 20' CANOPY TREE IN 15'x20' TREE WELL#2 WITH 2.5' THICK AMENDED SOIL. SOIL VOLUME=750 FT³
- BIO-FILTRATION BASIN WITH PARTIAL RETENTION (PR-1) (760 SF BOTTOM AREA)



TREE WELL DETAIL
NO SCALE



SECTION A-A
NO SCALE

DMA 5
SELF-MITIGATING
0.11 AC

DMA 7
DE-MINIMUS
215 SF

DMA 1
SELF-RETAINING
TREE WELL #1
0.36 AC

DMA 2
SELF-RETAINING
TREE WELL #2
0.19 AC

DMA 4
SELF-MITIGATING
0.28 AC

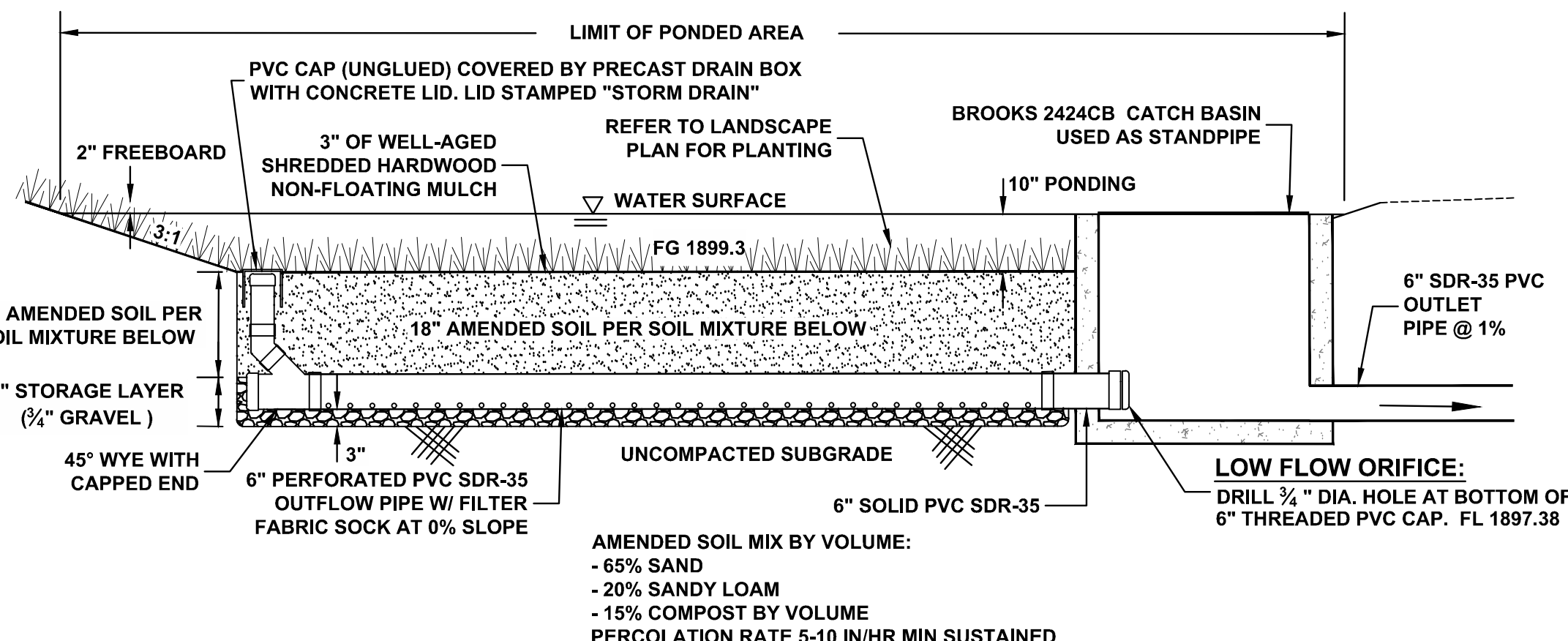
DMA 6
SELF-MITIGATING
0.39 AC

DMA 3
SELF-RETAINING
BIOFILTRATION BASIN
0.67 AC

DMA 8
DE-MINIMUS
240 SF

ACCESS TO MAINTAIN
THE STRUCTURAL BMP

DMA 8
DE-MINIMUS
240 SF



BIOFILTRATION BASIN WITH PARTIAL RETENTION (PR-1) DETAIL
NO SCALE

GRADING PLAN CERTIFICATION:

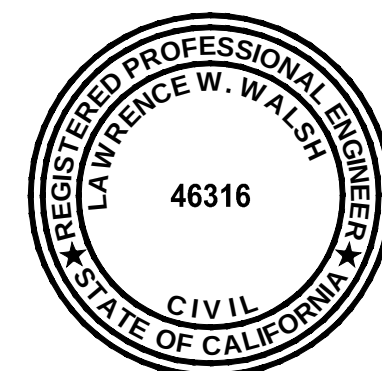
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BY: LAWRENCE W. WALSH DATE:

RCE NO.: 46316 EXPIRES 12/31/20

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES DATE:



Walsh Engineering & Surveying, Inc.
607 Aldwych Road, El Cajon, CA 92020
(619) 588-6747 (619) 792-1232 Fax

COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 5	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	5 SHEETS
DRAINAGE MANAGEMENT AREA PLAN:					
HOPKINS RESIDENCE					
CALIFORNIA COORDINATE INDEX 234-1839 (NAD)					
APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER			ENGINEER OF WORK LAWRENCE W. WALSH RCE 46316		
SEE CERTIFICATION			GRADING PERMIT NO. PDS2019-LDGRMN-20218		