





In the Santa Clara Valley, storm drains flow directly to our local creeks, and on to San Francisco Bay, with no treatment. Storm water pollution is a serious problem for wildlife dependent on our waterways and for the people who live near polluted streams or baysides.

Proper management of construction sites reduces pollution significantly. This sheet summarizes the "Best Management Practices" (BMPs) for storm water pollution prevention.

### ORDINANCE OF THE CITY OF CUPERTINO FOR STORM WATER POLLUTION PREVENTION & WATERCOURSE PROTECTION: Chapter 9.18

**9.18.040 Discharge into the storm drain prohibited**  
It is unlawful to cause, allow, or permit to be discharged, any discharge not composed entirely of stormwater to the storm drain system or to surface waters or to any location where it would contact or eventually be transported to surface waters, including flood plain areas, unless specifically called out in the Municipal Regional Permit as an exempt or conditioned exempt discharge.

**9.18.070 Accidental Discharge**  
All persons shall notify the Director of Public Works immediately upon accidentally discharging pollutants of concern to enable countermeasures to be taken by the City to minimize damage to storm drains and the receiving waters. Initial notification shall be followed, within five (5) business days of the date of occurrence, by a detailed written statement describing the causes of the accidental discharge and the measures being taken to prevent future occurrences. Such notification will not relieve persons of liability for violations of this chapter or for any fines imposed on the City on account thereof under Section 13350 of the California Water Code, or for violation of Section 5650 of the California Fish and Wildlife Code, or any other applicable provisions of State or Federal laws.

**9.18.220 Violation**  
Any person who violates any provision of this Chapter shall be guilty of a misdemeanor and upon conviction thereof shall be punished as provided in Chapter 1.12 of the City of Cupertino Municipal Code.

Chapter 1.12: General Penalty, Section 1.12.010, paragraph D, states:

- Unless otherwise specified by this code, an infraction is punishable by:
  - A fine not to exceed \$100 for a first violation
  - A fine not to exceed \$200 for a second violation
  - A fine not to exceed \$200 for a third violation of the same chapter within one year.

**9.18.240 Civil penalty for illicit discharges**  
Any person who discharges pollutants, in violation of this Chapter, by the use of illicit connections shall be civilly liable to the City in a sum not to exceed twenty-five thousand dollars per day per violation for each day in which such violation occurs.

"Exempts" - For complete OODE language refer to the City of Cupertino Municipal Code.

- Cupertino**  
Building Dept:  
488-777-3222  
Public Works Dept:  
488-777-3354
- Santa Clara County**  
Recycling Dept:  
840-832-6414  
www.sccrecycling.org  
San Jose Business Hazardous Waste:  
408-299-7300
- Cupertino Sanitary Sewer District**  
488-353-7473
- Santa Clara Valley Urban Runoff Pollution Prevention Prgm**  
480-774-2487
- State Office of Emergency Services**  
1-800-952-7559 (24 hrs)
- Report spills to 911

## General Construction and Site Supervision

**Storm Drain Pollution From Construction Activities**  
Construction sites are common sources of storm water pollution. Materials and wastes that flow to the storm drain system, either directly or indirectly, can be a major source of pollution. It is the responsibility of the site supervisor, owner or operator of a site, who may be responsible for any environmental damage caused by such subcontractors or employees.

- General Principles**
  - Keep an orderly site and ensure good housekeeping practices are used.
  - Maintain equipment properly.
  - Cover materials when they are not in use.
  - Keep materials away from streets, storm drains and drainage channels.
  - Ensure that spilled water does not have any discharge to storm drains.
- Storm Drain Pollution Prevention**
  - Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, grass lawns, vegetation or place other erosion materials, whenever possible, before excavation begins. Use erosion control blankets, straw mulch, straw mats, and other erosion control materials such as geotextiles.
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## Painting and Application of Solvents and Adhesives

**Storm Drain Pollution from Paints, Solvents, and Adhesives**  
Alkylates, solvents, and adhesives contain chemicals that are harmful to wildlife in local creeks, San Francisco Bay, and the Pacific Ocean. These chemicals may come from lead or leaded products or from leaded gasoline or gas. Paint, solvent and adhesive, and cleaning fluids should be recycled when possible, or disposed of properly to prevent these materials from flowing into storm drains and watercourses.

- Handling Paint Products**
  - Keep all liquid paint products and wastes away from the gutter, street, and storm drains.
- Painting Cleanup**
  - Never clean brushes or rinse paint containers into a street, gutter, storm drain, storm ditch, or creek.
  - For water-based paints, paint out brushes to the nearest possible, and rinse into an inside sink or into the sanitary sewer.
  - For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent. Fill and reuse thins and solvents, where possible. Dispose of excess fluids and residue as hazardous waste.
  - When thoroughly dry, empty paint cans, and brushes, rag, and drop cloths may be disposed of as garbage.

- Paint Disposal, Return or Donation**
  - Dispose of unwanted liquid paint, thins, solvents, thinners, and cleaning fluids as hazardous waste. Call the Small Business Hazardous Waste Prgm: 269-7500.
  - Return to supplier. (Exception: cans of paint may be able to be returned. Check with the vendor regarding its "buy-back" policy.)
  - Donate excess paint (all 299-7500 to donate).

## Landscaping, Gardening, and Pool Maintenance

**Storm Drain Pollution From Landscaping and Swimming Pool Maintenance**  
Many landscaping activities expose soils and increase the likelihood that both and garden chemicals will run into the storm drain system during heavy rain. Chemicals are toxic to aquatic life.

- Landscaping/Garden Maintenance**
  - Prevent vegetation or landscaping materials from wind and rain blowing from under lawns or sods to public spaces.
  - Schedule grading and excavation projects during dry weather.
  - Use temporary check dams or ditches to divert runoff away from storm drains.
  - Protect storm drains with sandbags, gravel-filled bags, straw wattles, or other sediment controls.
  - Revegetation is an excellent form of erosion control for any site.
  - Store materials, herbicides and other chemicals indoors or in a shed or storage cabinet.
  - Use pesticides sparingly, according to instructions on the label. Use only certified applicators and use measures to protect children and pets.
  - Dispose of unused pesticides as hazardous waste.
  - In Cupertino, residents with curbside recycling can collect lawn and garden trimmings or yard waste. Trimmings will be collected and composted by the city contractor. Residents are encouraged to compost yard waste on their own. Do not take yard waste to a landfill where it will be composted.
  - Landscaping contractors should take shavings and paving waste to a landfill that accepts such waste. If it's highly likely the landfill will accept the waste, call the landfill to verify this.
  - Do not pour or rake leaves into the street.

## Earth-Moving Activities

**Storm Drain Pollution From Earth-Moving Activities**  
Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm drains when handled improperly. Sediments in runoff can clog storm drains, erode aquatic life, and clogby habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff causing a site and slow the flow with check dams or roughened ground surfaces.

- Practices During Construction**
  - Remove existing vegetation only when absolutely necessary. Plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
  - Prevent downspout discharge, erosion, streams, and storm drains with silters, or temporary drainage swales. Use check dams or ditches to divert runoff around activities. Refer to the Regional Water Quality Control Board's erosion and sediment Control manual for proper erosion and sediment control measures.
  - Cover stockpiles and excavated soil with silted traps or plastic sheeting.

## Removal of BMP Facilities

**The Project Contractor is responsible for removal of all BMP Facilities located within the Public Right of Way upon project final inspection.**

- During Construction**
  - Don't pile up more than concrete or cement slurry used in a two-hour period.
  - Set up and operate small silters on large or heavy plastic drop cloths.
  - When cleaning up after driveway or sidewalk construction, wash these areas and areas not down the driveway or into the storm or storm drain.
  - Protect applications of fresh concrete and mortar from runoff and runoff into the materials has dried.
  - Wash down exposed aggregate concrete to only when the washwater can flow into a ditch area. Do not use a hose to wash concrete from a driveway or sidewalk. Recycle wash water into a catchment device. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters or storm drains.
  - When breaking up pavement, be sure to pick up all pieces and dispose of properly. Recycle large chunks of broken concrete. See www.wqcb.org for more on recycling.
  - Never bury waste material. Dispose of small amounts of excess dry concrete, gravel and mortar in the wash.
  - Never dispose of washwater into the street, storm drain, drainage ditch, or stream.

## Removal of BMP Facilities

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- General Business Practices**
  - Wash out concrete mixer only in designated wash areas in your yard, away from storm drains and waterways, where the water will flow into a temporary wash area. Do not use water permeable through soil and dispose of washwater in a catchment device. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters or storm drains.
  - Wash out excess concrete that does not flow to storm drains.
  - Always store both dry and wet materials under cover, protected from rainfall and runoff and away from storm drains and waterways. Protect dry materials from wind.
  - Secure bags of cement in a way that are open. Be sure to keep washwater contained powder away from streets, gutters, storm drains, creeks, and runoff.
  - Do not use excess fuel as a lubricant on concrete forms, ties, or trailers.

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APPROVED:  9/1/16  
TIMM BORDEN, RCE #6612  
DIRECTOR OF PUBLIC WORKS

DATE: 9/1/16

# CONSTRUCTION BEST MANAGEMENT PRACTICES

**CITY OF CUPERTINO**  
DEPARTMENT OF PUBLIC WORKS

UPDATED SEPTEMBER 2016

SHEET: CO.2  
OF 15 SHEETS



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Regnard Road CDFW LSAA Permit Conditions



Measure Number	Measure Name	Requirement	Responsibility	Notes/Questions
1.1.1 and 1.1.2	Documentation at Project Site	LSAA Agreement, stipulations and attachments to the Agreement, and all related calibration records and CDFW documents must be readily available at the Project site at all times and copies of the Agreement must be distributed to all persons working on the Project at the Project site.	Contractor	
1.1.3	Notification of Construction and Completion of Work	Notify CDFW every 15 days until starting work and every 15 working days of completion of work for each construction season or event at the Agreement.	WRA	
2.2.1	Work Period	Work within the season limits and nearest corridor is restricted to April 15 - October 15. Agreements involving planting and seeding work using heavy machinery are not to be performed, but must be completed within the set window the same year following completion of the Project. Planting must be completed and February 28 of the year immediately following impacts if Park is restricted area prior to December 31.	Contractor	General Maintenance, timing of seeding work with construction WMA scope.
2.2.2	Soils	No signs or marks where described in the Agreement.	Contractor	
2.2.11	Imported Materials	Do not import, store, or use any rock, gravel, or other materials within the prescribed work area except as described in the Agreement.	Contractor	
2.2.12	Odors - Excavation and Grading	Prevent odors from being carried to nearby areas. Remove any odors that have entered adjacent areas.	Contractor	
2.2.13	Contaminants	Identify any contaminants hazardous to aquatic life from existing to and/or adjacent to the work area. Remove or contain any contaminants if they are present or fall within jurisdictional waters.	Contractor	
2.2.14	Soil Contaminants	All activities within 50 ft of riparian areas must have substantial measures in place to avoid soil spills. Spills must be reported to California Emergency Management Agency immediately at 1-800-451-7059. CDFW must be notified of such spills within the work area.	Contractor	
2.2.15	Rehabilitate Soil Pore	A rehabilitation soil plan must be developed prior to construction, implementation and completion to appropriate agencies and be performed to the contract.	Contractor	Not applicable - project does not involve any soil work.
2.2.16	Concrete Erosion from Wetted Channel	Prevent concrete from 30 days using before setting. This period may be waived based on project location. All areas of 4.0-5.0 feet in width exposed to wetted stream. Sediment from setting equipment can be applied to concrete surface the wetted stream. Contact CDFW for details.	Contractor	
2.2.17	Concrete Discharge Material	A monitor designated by the Permittee shall monitor all concrete pouring during the wetted area of Project Creek.	WRA	WMA will verify this as an optional task to ensure that the concrete is placed in the correct location and depth. The location can be verified by the contractor person approved by CDFW.
2.2.18	Concrete Wash Area	Permittee or contractor shall not allow concrete washwater and debris to enter the stream channel. Concrete wash water facilities need to be constructed daily and following heavy rain to check for leaks and identify any damage to plastic tubing and/or sediment traps.	Contractor	
2.2.19	Regeneration	Areas of high ground resulting from construction activities shall be regenerated with native grasses, seed mix, riparian species and/or approved turf CDFW or any changes to the regeneration method.	WRA	WMA can assist with approved turf received in the regeneration method.
2.2.20	Stream Control Methods	Stream control methods must include sediment traps, silt fences, and other methods to prevent erosion and sediment transport. Stream control methods must include sediment traps, silt fences, and other methods to prevent erosion and sediment transport.	Contractor	
2.2.21	Stream Control Installation Time Period	All stream control structures, signs, and materials must be installed in place as proposed after Project activities in these areas cease. Existing placed after October 15 must be installed and be in place prior to the start of the next season or event.	WRA	WMA will verify this as an optional task to ensure that the stream control methods are installed in place as proposed.
2.2.22	Work Notification	Permittee must conduct a feasibility study to determine appropriate methods to minimize the work area. This may include partial or full removal of the stream control work. Feasibility study report to be submitted to CDFW for review and approval within 30 days of initiation of the Agreement and a final report to be submitted 30 days of completion of the Agreement.	WRA	
2.2.23	Pre-Work Permit Review and Reinspection	Permittee must submit a Pre-Work Permit Application to CDFW for review and approval. The Pre-Work Permit Application must include a site plan, a description of the work to be performed, and a description of the stream control methods to be used. The Pre-Work Permit Application must be submitted to CDFW at least 30 days prior to the start of the work.	WRA	
2.2.24	CDFW Approved Qualified Geologists and Biologists Monthly	Permittee must submit the names and resumes of all biologists and geologists involved in conducting survey and monitoring work at least 30 days prior to starting work and update survey.	Contractor	
2.2.25	Training Session for Personnel	The qualified biologist must conduct an education program for all persons employed on the Project prior to performing work and other stream control methods to be provided for non-English speaking workers. Copies of the Agreement must be maintained at all work sites with the Project supervisor. Employees must not be allowed working until they completed the training and certification of activities required.	WRA	
2.2.26	The Construction Plan and Wetland Surveys	The qualified biologist must conduct pre-construction surveys for the presence of construction work within the Project area.	WRA	
2.2.27	Soils	If soils or historically filled streams are found, the qualified biologist must contact CDFW and submit a report to CDFW and all work must cease until problems are approved. If a report is submitted to the CDFW by the State Project office must be notified within four hours if any work is found to be in place.	Contractor	

Regnard Road CDFW LSAA Permit Conditions



Measure Number	Measure Name	Requirement	Responsibility	Notes/Questions
2.2.27	Stream Bank Erosion Monitoring During Work	Contractor personnel shall monitor for stream bank erosion during Project activities. If bank erosion is observed, the contractor shall immediately report to CDFW and take corrective action.	Contractor + WRA	WMA will verify a contractor "on call" task to use any riparian area affected.
2.2.28	Stream Bank Erosion Monitoring During Work	If there is a stream bank erosion of stream bank erosion from Project activities, the qualified biologist shall immediately report to CDFW and take corrective action.	WRA	WMA will verify a contractor "on call" task to use any riparian area affected.
2.2.29	Soil Erosion Control Measures	Prior to the beginning of construction activities, a biologist must conduct a soil erosion control assessment. The assessment shall include a site plan, a description of the work to be performed, and a description of the stream control methods to be used. The assessment must be submitted to CDFW at least 30 days prior to the start of the work.	Contractor	WMA will verify a contractor "on call" task to use any riparian area affected.
2.2.30 and 2.2.31	Stream Bank Erosion Monitoring During Work	The construction activities when the National Weather Service 7-day forecast indicates a 50% or higher chance of precipitation. Construction activities can include any stream bank erosion and the 72 hour forecast indicates a 20% or less chance of precipitation. No work shall be done within 24 hours of a forecast that predicts 2.0 inches or greater of rain. If less than 2.0 inches of rain, additional erosion control measures may be necessary to ensure stream bank erosion is less than 24 hours of the forecast.	Contractor	WMA will verify a contractor "on call" task to use any riparian area affected.
2.2.32	Stream Bank Erosion Monitoring During Work	All necessary stream control measures must be implemented 12 hours prior to the onset of precipitation.	Contractor	
2.2.33	Stream Bank Erosion Monitoring During Work	If work will take place between January 15 to September 15, a certified biologist shall conduct a soil erosion control assessment. The assessment shall include a site plan, a description of the work to be performed, and a description of the stream control methods to be used. The assessment must be submitted to CDFW at least 30 days prior to the start of the work.	Contractor	WMA will verify a contractor "on call" task to use any riparian area affected.
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2.2.92	Stream Bank Erosion Monitoring During Work	Stream bank erosion control measures must be implemented 12 hours prior to the onset of precipitation.	Contractor	
2.2.93	Stream Bank Erosion Monitoring During Work	Stream bank erosion control measures must be implemented 12 hours prior to the onset of precipitation.	Contractor	
2.2.94	Stream Bank Erosion Monitoring During Work	Stream bank erosion control measures must be implemented 12 hours prior to the onset of precipitation.	Contractor	
2.2.95	Stream Bank Erosion Monitoring During Work	Stream bank erosion control measures must be implemented 12 hours prior to the onset of precipitation.	Contractor	
2.2.96	Stream Bank Erosion Monitoring During Work	Stream bank erosion control measures must be implemented 12 hours prior to the onset of precipitation.	Contractor	
2.2.97	Stream Bank Erosion Monitoring During Work	Stream bank erosion control measures must be implemented 12 hours prior to the onset of precipitation.	Contractor	
2.2.98	Stream Bank Erosion Monitoring During Work	Stream bank erosion control measures must be implemented 12 hours prior to the onset of precipitation.	Contractor	
2.2.99	Stream Bank Erosion Monitoring During Work	Stream bank erosion control measures must be implemented 12 hours prior to the onset of precipitation.	Contractor	
2.2.100	Stream Bank Erosion Monitoring During Work	Stream bank erosion control measures must be implemented 12 hours prior to the onset of precipitation.	Contractor	

DATE: 10/10/2022  
BY: MME  
REV: 1  
DESCRIPTION: REGNARD ROAD IMPROVEMENTS PHASE 1

MME  
MME INCORPORATED  
220 WEST 10TH AVENUE  
DENVER, CO 80202  
PHONE 303.733.1818

REGNARD ROAD IMPROVEMENTS PHASE 1

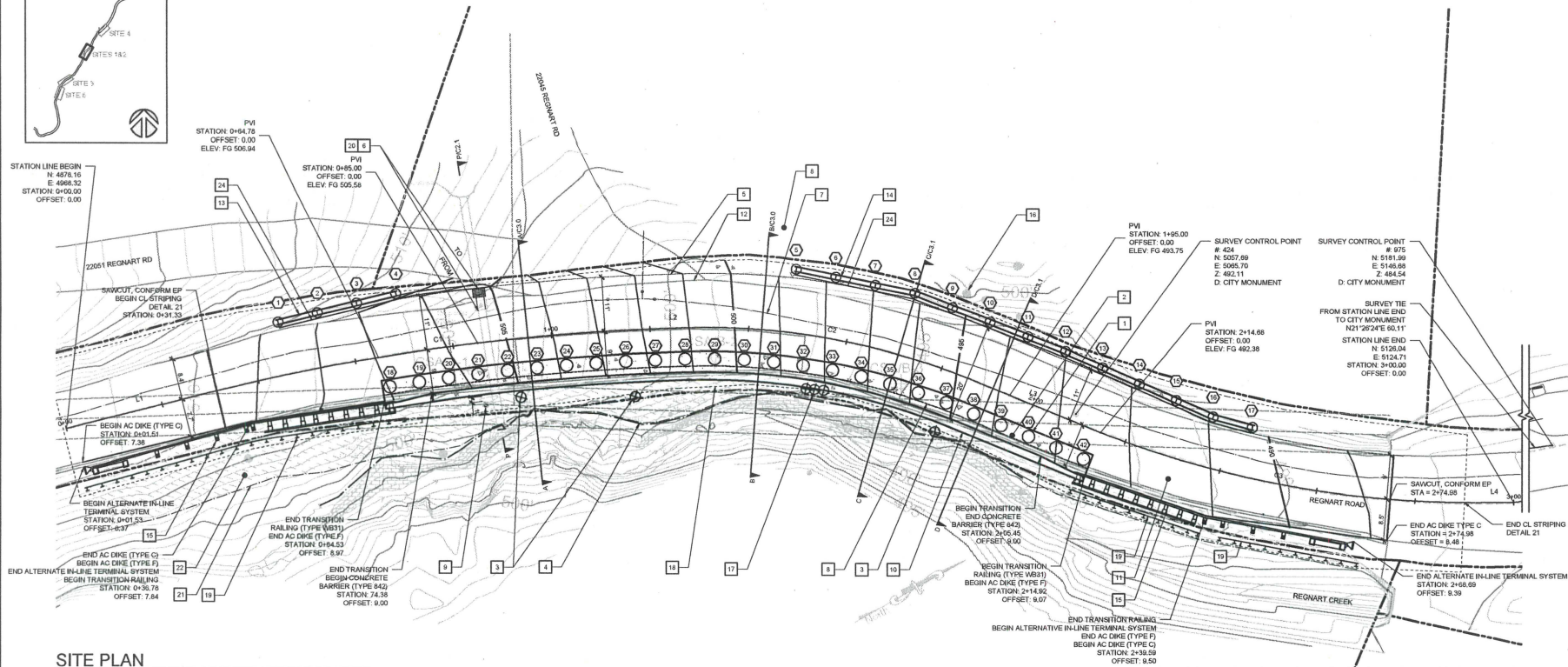
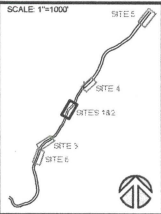
PERMIT CONDITIONS

PREPARED BY THE REQUEST OF  
CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS  
CUPERTINO, CA 95014-3202

DRAWN BY: JP  
CHECKED BY: MC  
JOB NUMBER: 20144  
SHEET: C0.3

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**VICINITY MAP**

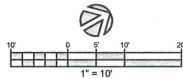


**SITE PLAN**

SCALE: 1" = 10'

**SHEET NOTES**

- 1 PVI PILE WALL C AND GRADE BEAM, PER STRUCTURAL DETAILS ON 53.1
- 2 ELEVATED REINFORCED CONCRETE SLAB, PER STRUCTURAL DETAILS ON 53.1
- 3 THREE TREES TO BE REMOVED OR TRIMMED AS NEEDED FOR CONSTRUCTION
- 4 ORDINARY HIGH WATER
- 5 PROPOSED EDGE OF TRAVELED HWY, TYP
- 6 REMOVE & REPLACE EXISTING INLET, PROTECT PIPING AND OUTLET IN PLACE
- 7 EXISTING UNDERGROUND UTILITIES PROTECT IN PLACE APPROX
- 8 RELOCATE EXISTING MAILBOXES ON NEW POSTS
- 9 12" CLEARANCE MIN TO POWER POLE
- 10 TYPE #43 CONCRETE BARRIER, PER DETAILS B11-4/1C4.0, B11-4/2C4.0 AND 11S1.1
- 11 ASPHALT PAVING PER DETAIL 1C4.1 (3,300 SF APPROX)
- 12 EX EDGE OF TRAVELED HWY
- 13 INBOARD SOLDIER PILE WALL A
- 14 INBOARD SOLDIER PILE WALL B
- 15 TRANSITION RAILING AND MOST TERMINAL END SYSTEM, PER CALTRANS STANDARD PLAN A77J2, AND RSP A77J3, A77Q1, AND A77Q4 / C4.0
- 16 TRIM TREE BRANCHES, TYP
- 17 THREE TREES TO BE REMOVED
- 18 LIMIT OF DISTURBANCE, APPROXIMATE
- 19 EARTH RETAINING STRUCTURE PER DETAIL 1C4.0
- 20 TEMPORARY DRAINAGE INLET PROTECTION (1 EACH)
- 21 SILT FENCE AND COMPOST SOCK ALONG BOTTOM OF FENCE (200 LF)
- 22 ROLLED EROSION CONTROL JUTE MESH (1,630 SF)
- 23 HMA DIKE, TYPE C UNDER TERMINAL ENDS AND TYPE F UNDER GUARDRAIL, PER CALTRANS DETAIL A87B/C4.1 (1700 LF)
- 24 HMA DIKE, SIMILAR TO TYPE A PER CALTRANS DETAIL A87B/C4.1 ALONG FULL LENGTH AT BASE OF SOLDIER PILE WALLS. EXTEND TO NEW DRAINAGE INLET ON WALL A



NOTES:  
 1. CONTRACTOR SHALL PROVIDE WATER POLLUTION CONTROL PLAN IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND CALTRANS STANDARDS.  
 2. TOPOGRAPHIC SURVEY AND SURVEY CONTROL POINTS PROVIDED BY THE CITY OF CUPERTINO AND PERFORMED BY COTTON SHIRES AND ASSOCIATES, FEBRUARY 2019.  
 3. CONTRACTOR SHALL RELOCATE 3 MAILBOXES AND PROVIDE NEW POSTS.

LINE / CURVE #	RADIUS	LENGTH	(CHORD) DIRECTION
L1	—	31.331	N10° 18' 48.91"E
C1	437	91.393	N21° 16' 12.82"E
L2	—	4.106	N27° 17' 41.61"E
C2	140	59.770	N39° 37' 28.59"E
L3	—	24.917	N51° 49' 15.56"E
C3	204	80.713	N42° 25' 10.83"E
L4	—	7.771	N29° 05' 06.16"E

PILE NUMBER	CL STATION	ALIGNMENT OFFSET	PILE NUMBER	CL STATION	ALIGNMENT OFFSET
1	0+66.36	10.74	19	0+90.40	6.27
2	0+64.32	11.07	20	0+96.49	6.27
3	0+62.27	11.55	21	1+02.57	6.27
4	0+70.20	12.18	22	1+08.66	6.27
5	1+48.17	12.05	23	1+14.75	6.27
6	1+55.65	12.49	24	1+20.84	6.27
7	1+63.15	12.46	25	1+26.93	6.27
8	1+70.63	12.86	26	1+33.15	6.27
9	1+78.11	12.35	27	1+39.43	6.27
10	1+85.62	12.25	28	1+45.71	6.27
11	1+93.71	12.43	29	1+51.99	6.27
12	2+01.78	12.61	30	1+58.27	6.27
13	2+10.04	12.36	31	1+64.55	6.27
14	2+18.62	12.00	32	1+70.83	6.27
15	2+27.26	11.30	33	1+77.12	6.27
16	2+35.80	10.25	34	1+83.40	6.27
17	2+44.44	10.17		1+89.64	6.27
18	0+66.05	6.27		1+95.84	6.27
	0+72.14	6.27		2+01.54	6.27
	0+78.23	6.27		2+07.54	6.27
	0+84.13	6.27		2+13.48	6.27

NOTE: LAYOUT LOCATION IS ON THE CENTER OF PILE FOR ALL PILES

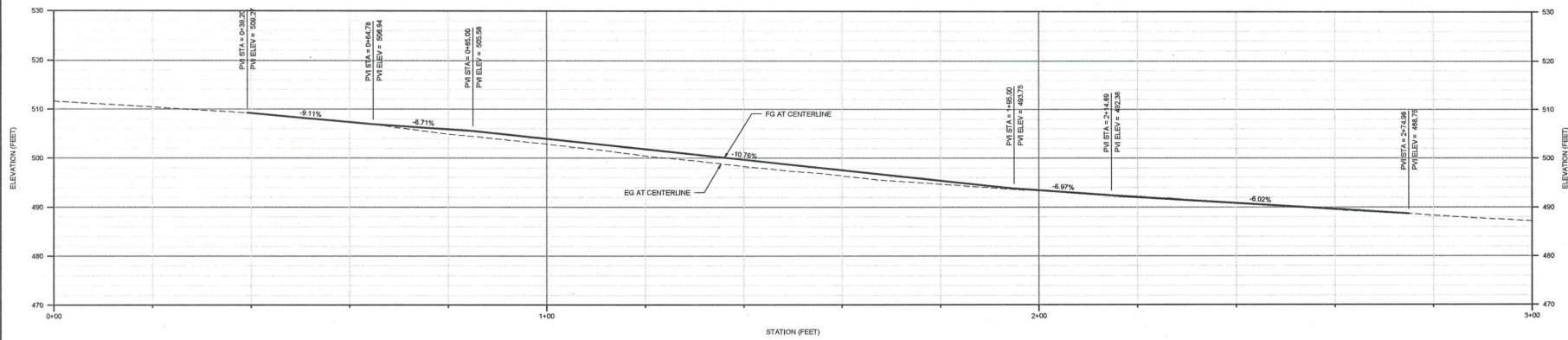
DATE: 04/10/2022  
 BY: JFC  
 PROJECT: REGNARD ROAD IMPROVEMENTS PHASE 1  
 DESCRIPTION: REGNARD ROAD IMPROVEMENTS PHASE 1  
 MME  
 MME, INC.  
 CIVIL ENGINEERING  
 224 WILSON AVENUE, SUITE B, CUPERTINO, CA 95050  
 PHONE (408) 698-5168  
 REGNARD ROAD IMPROVEMENTS PHASE 1  
 PREPARED AT THE REQUEST OF  
 THE BOARD OF SUPERVISORS  
 CITY OF CUPERTINO  
 6150 GARDEN AVENUE, SUITE 200  
 CUPERTINO, CA 95050-3209

SHEET: 20144  
 DRAWN BY: JP  
 CHECKED BY: MC  
 JOB NUMBER: 20144  
 SHEET

C1.0

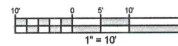


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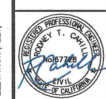


**CENTERLINE PROFILE**

SCALE: 1" = 10'



REV.	BY	DATE	DESCRIPTION
1	HTC	01/10/22	



**REGNART ROAD IMPROVEMENTS  
PHASE 1**

PREPARED AT THE REQUEST OF  
CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS  
CUPERTINO, CA 95014-3202

CENTERLINE PROFILE

DRAWN BY: JP  
CHECKED BY: HC

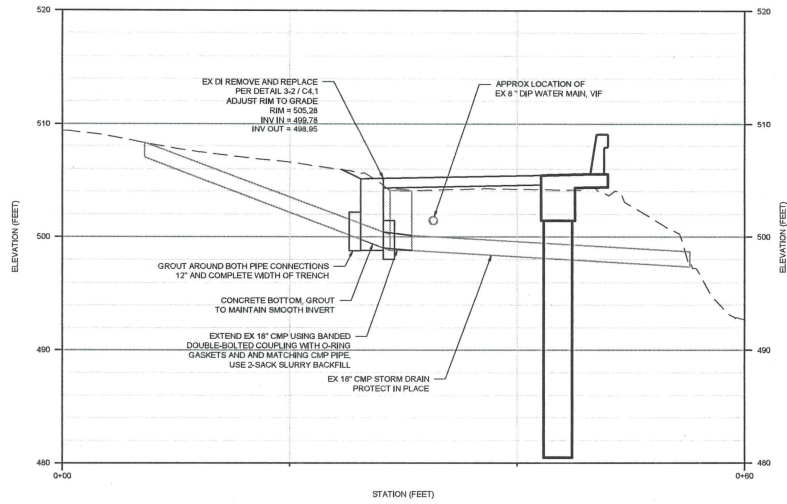
JOB NUMBER: 20144

SHEET

**C2.0**

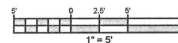


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**STORM DRAIN PROFILE**

SCALE: 1" = 5'



REV.	DATE	BY	DESCRIPTION
1	01/10/22	RVC	



REGNART ROAD IMPROVEMENTS  
 PHASE 1  
 PREPARED AT THE REQUEST OF  
 THE DEPARTMENT OF PUBLIC WORKS  
 CITY OF CUPERTINO, CALIFORNIA  
 CUPERTINO, CA 95014-3202

STORM DRAIN PROFILE

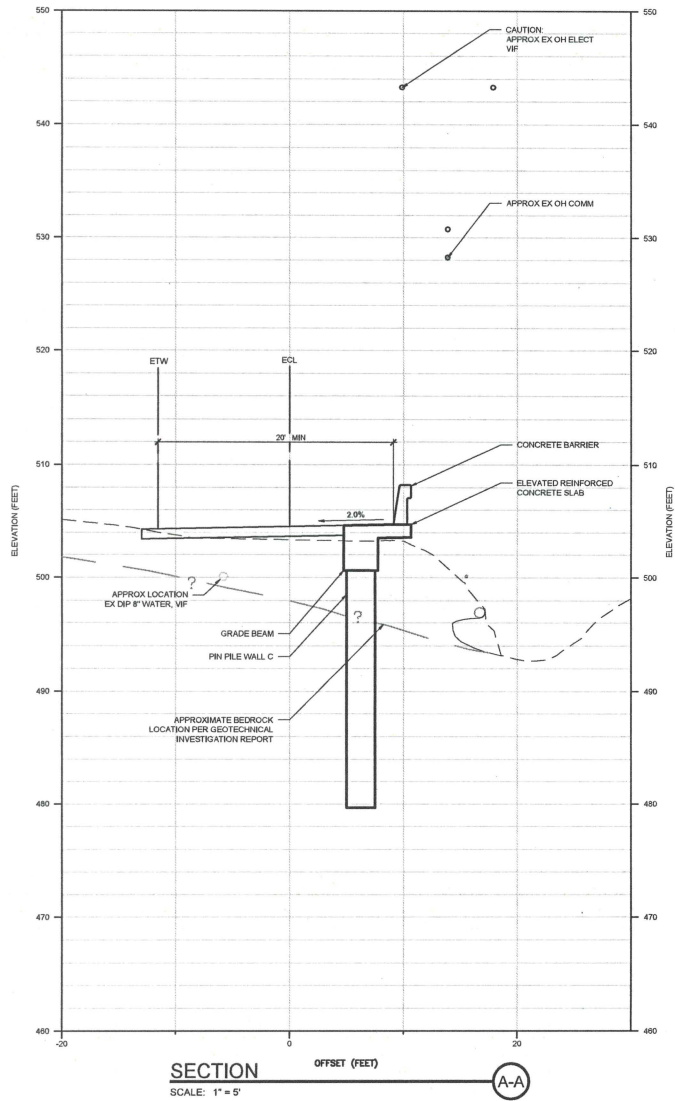
DRAWN BY: JP  
 CHECKED BY: RC

JOB NUMBER: 20144

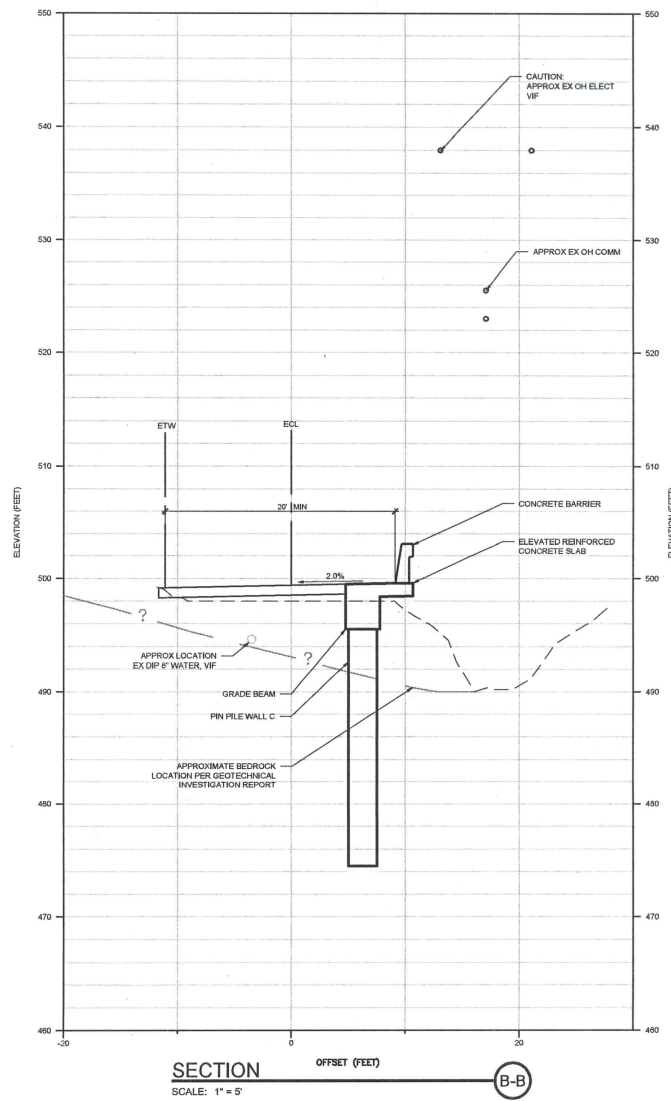
SHEET  
**C2.1**



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SECTION A-A  
SCALE: 1" = 5'



SECTION B-B  
SCALE: 1" = 5'

**SITE SECTIONS**  
SCALE: 1" = 5'

REV	DATE	DESCRIPTION
1	01/10/2022	
2		
3		
4		
5		
6		
7		
8		
9		
10		



**REGNART ROAD IMPROVEMENTS  
PHASE 1**  
PREPARED AT THE REQUEST OF  
CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS  
CUPERTINO, CA 95014-3002

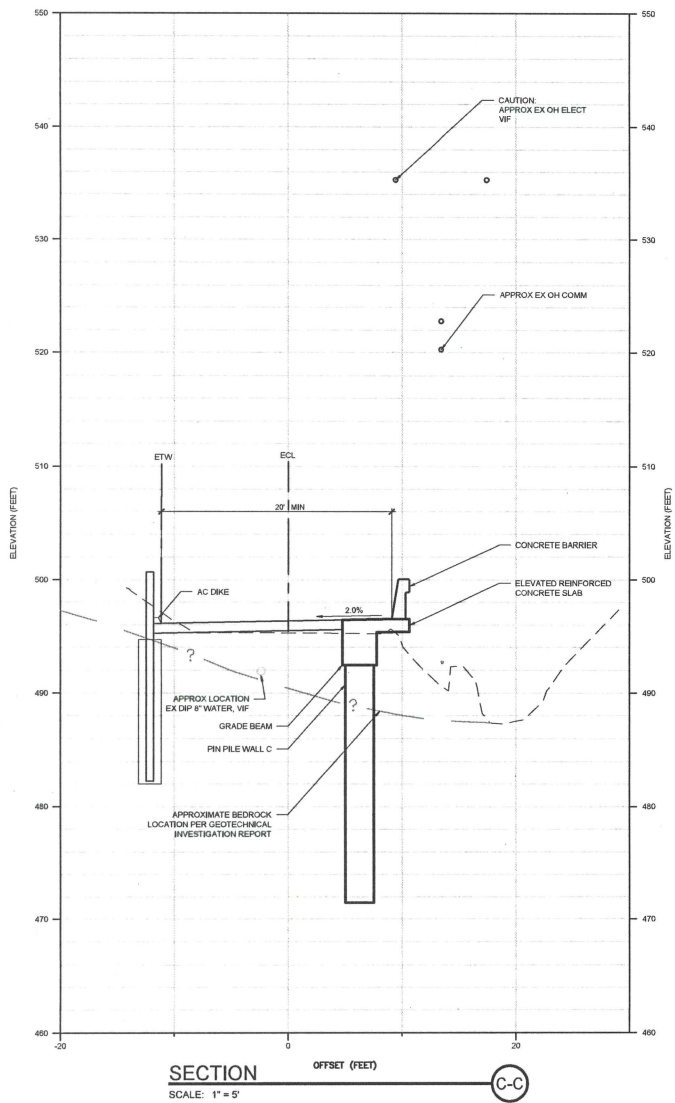
**SITE SECTIONS**

DRAWN BY: JP  
CHECKED BY: RC  
JOB NUMBER: 20144

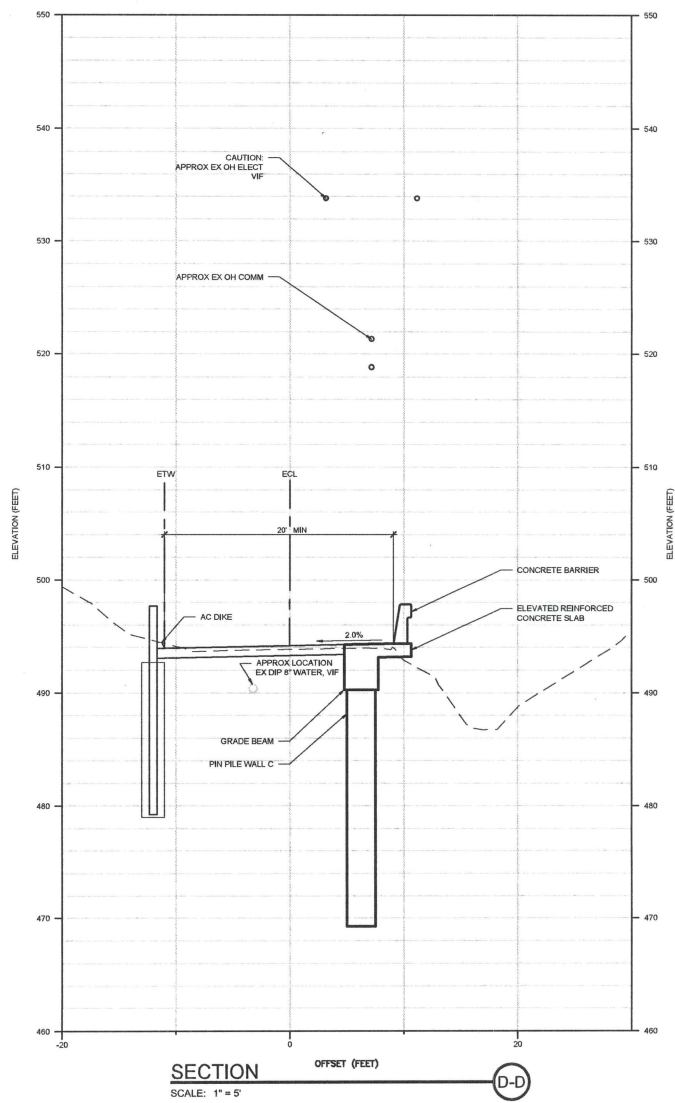
SHEET  
**C3.0**



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SECTION C-C  
SCALE: 1" = 5'



SECTION D-D  
SCALE: 1" = 5'

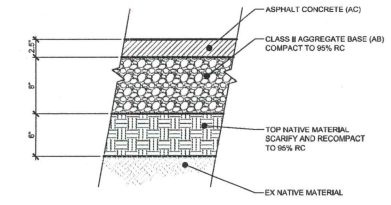
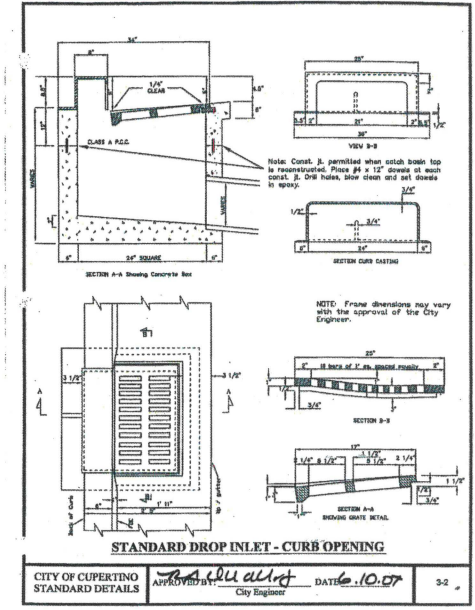
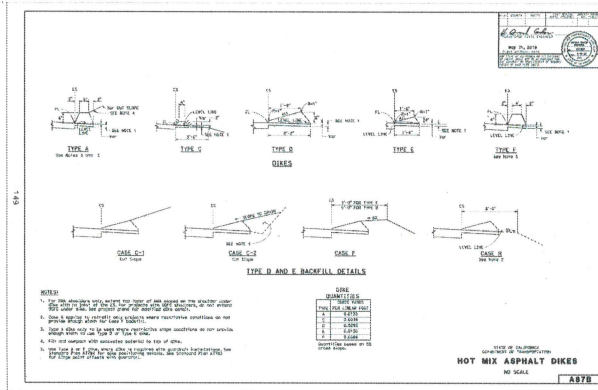
SITE SECTIONS  
SCALE: 1" = 5'

DATE	3/1/2022
BY	REC
DESCRIPTION	
REV	1
	2
MME	1
	2
 MME ENGINEERING, INC. 224 Main Street, Suite 100 Livermore, CA 94550 Phone (925) 455-1188	
 PREPARED AT THE REQUEST OF CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS CUPERTINO, CA 95014-3202	
REGNART ROAD IMPROVEMENTS PHASE 1	
SITE SECTIONS	
DRAWN BY:	JP
CHECKED BY:	BC
JOB NUMBER:	20144
SHEET:	
C3.1	





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**VEHICULAR AC PAVEMENT**

SCALE: 1 1/2" = 1'-0"

1

DATE	3/10/2022
BY	REC
DESCRIPTION	
REV	
MET	
BY	
DATE	

**MME**

REGNART ROAD IMPROVEMENTS  
PHASE 1

PREPARED AT THE REQUEST OF  
CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS  
CUPERTINO, CA 95014-3302

**REGISTERED PROFESSIONAL ENGINEER**

STATE OF CALIFORNIA

NO. 10000

221 Main Street, Suite 100, Cupertino, CA 95014  
Phone (408) 455-5188

DETAILS

DRAWN BY: JP

CHECKED BY: BC

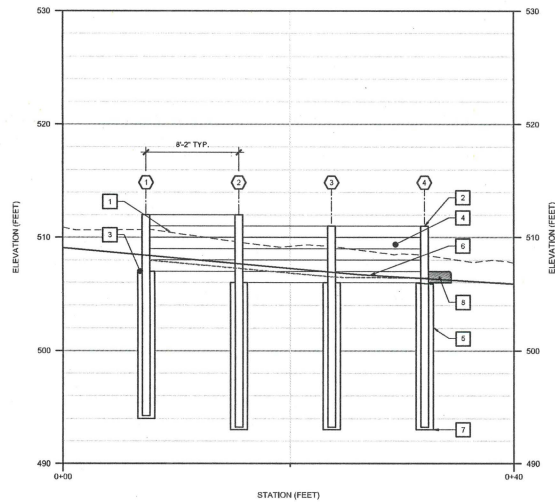
JOB NUMBER: 20144

SHEET

**C4.1**



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### INBOARD WALL A PROFILE

SCALE: 1" = 5'

WALL DATA				
PILE NUMBER	①	②	③	④
TOP OF SOLDIER PILE ELEV (FT)	512.00	512.00	511.00	511.00
SOLDIER PILE SHAPE	W12x45	W12x45	W12x45	W12x45
PILE DIAMETER (IN)	24	24	24	24
BOTTOM OF WALL ELEVATION (FT)	507.00	506.00	506.00	506.00
BOTTOM OF DRILLED HOLE ELEVATION (FT)	494.00	493.00	493.00	493.00

### SHEET NOTES

- 1 EXISTING GRADE AT BACK OF WALL
- 2 TOP OF SOLDIER PILE, TYP
- 3 BOTTOM OF WALL, TYP (SEE NOTE BELOW)
- 4 CONCRETE LAGGING, TYP
- 5 CONCRETE PILE, TYP
- 6 FINISHED GRADE IN FRONT OF WALL - 9' OFFSET OF CENTERLINE, ASPHALT CURB NOT SHOWN
- 7 BOTTOM OF DRILLED HOLE, TYP
- 8 PERFORATED PLASTIC PIPE, DAYLIGHT AT END OF WALL WITH A 90° BEND AND ENCASE IN CONCRETE - 24" WIDE x 12" HIGH x 24" DEEP

NOTE: WHERE LAGGING IS STEPPED PER 603.3, THE BOTTOM OF WALL ELEVATION IS FOR THE LOWER SIDE

### GENERAL DESIGN NOTES

#### INBOARD SOLDIER PILE WALL A AND B SOIL PARAMETERS:

LATERAL ACTIVE PRESSURES:  
 3:1 BACKSLOPE: Pa = 46 psf/ft  
 2.5:1 BACKSLOPE: Pa = 66 psf/ft  
 2:1 BACKSLOPE: Pa = 65 psf/ft  
 PASSIVE PRESSURES:  
 Pp = 0 psf/ft FOR UPPER 4'  
 Pp = 500 psf/ft FOR BELOW 4'

#### OUTBOARD PIN PILE WALL C SOIL PARAMETERS:

LATERAL ACTIVE PRESSURE: 40 psf/ft  
 VEHICULAR SURCHARGE PRESSURE: 250psf/ft  
 SEISMIC LOADING: 220'  
 PASSIVE PRESSURE: 500 psf/ft  
 625 psf/ft FOR SEISMIC LOADING

SEE SHEET 63.0 FOR MATERIAL SPECIFICATIONS

REV.	DESCRIPTION	BY	DATE
1	ISSUED	HTC	01/10/22
2			
3			
4			
5			



### REGNART ROAD IMPROVEMENTS PHASE 1

PREPARED AT THE REQUEST OF  
 CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS  
 CUPERTINO, CA 95014-3202

### INBOARD WALL A PROFILE

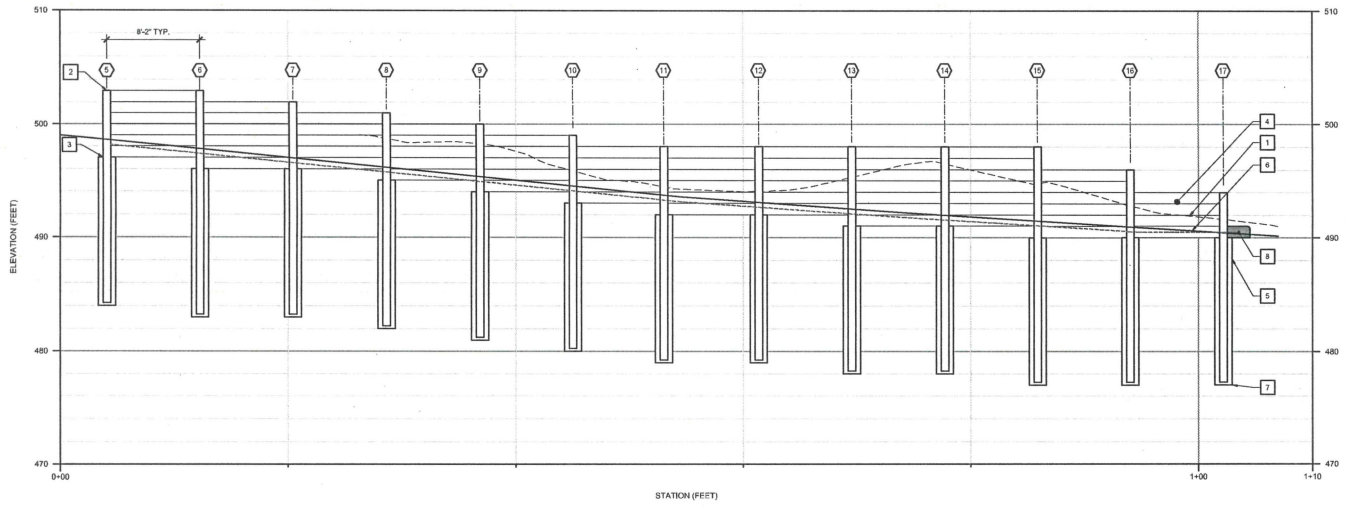
DRAWN BY: JHR  
 CHECKED BY: BR

JOB NUMBER: 20144

SHEET

S2.0

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**INBOARD WALL B PROFILE**  
SCALE: 1" = 5'

WALL DATA												
PILE NUMBER	5	6	7	8	9	10	11	12	13	14	15	17
TOP OF PILE ELEV (FT)	503.00	503.00	502.00	501.00	500.00	499.00	498.00	498.00	498.00	498.00	498.00	494.00
SOLDER PILE SHAPE	W12x45	W12x45	W12x45	W12x45	W12x45	W12x45	W12x45	W12x45	W12x45	W12x45	W12x45	W12x45
PILE DIAMETER (IN)	24	24	24	24	24	24	24	24	24	24	24	24
BOTTOM OF WALL ELEVATION (FT)	487.00	496.00	498.00	495.00	494.00	493.00	492.00	492.00	491.00	491.00	490.00	490.00
PILE TIP ELEVATION (FT)	484.00	483.00	483.00	482.00	481.00	480.00	479.00	479.00	478.00	478.00	477.00	477.00

- SHEET NOTES**
- EXISTING GRADE AT BACK OF WALL
  - TOP OF SOLDIER PILE, TYP
  - BOTTOM OF WALL, TYP 1' SEE NOTE BELOW
  - CONCRETE LAGGING, TYP
  - CONCRETE PILE, TYP
  - FINISHED GRADE IN FRONT OF WALL - 9" OFFSET OF CENTERLINE, ASPHALT CURB NOT SHOWN
  - BOTTOM OF DRILLED HOLE, TYP
  - PERFORATED PLASTIC PIPE, DAYLIGHT AT END OF WALL WITH A 90° BEND AND ENCASE IN CONCRETE - 24" WIDE x 12" HIGH x 24" DEEP
- NOTE: WHERE LAGGING IS STEPPED PER #53.0, THE BOTTOM OF WALL ELEVATION IS FOR THE LOWER SIDE

- GENERAL DESIGN NOTES**
- INBOARD SOLDIER PILE WALL "A" AND "B" SOIL PARAMETERS:**
- LATERAL ACTIVE PRESSURES:  
 3:1 BACKSLOPE: Pa = 45 psf/ft  
 2.5:1 BACKSLOPE: Pa = 55 psf/ft  
 2:1 BACKSLOPE: Pa = 65 psf/ft
- PASSIVE PRESSURES:  
 Pp = 0 psf/ft FOR UPPER 4'  
 Pp = 500 psf/ft FOR BELOW 4'
- OUTBOARD SHEAR PIN WALL "C" SOIL PARAMETERS:**
- LATERAL ACTIVE PRESSURE: 40 psf/ft  
 VEHICULAR SURCHARGE PRESSURE: 200 psf/ft  
 SEISMIC LOADING: 23k'  
 PASSIVE PRESSURE: 500 psf/ft  
 625 psf/ft FOR SEISMIC LOADING
- SEE SHEET S31.0 FOR MATERIAL SPECIFICATIONS

DATE	01/10/22
BY	HTC
DESCRIPTION	
REV.	NO. 1
NO. 2	
NO. 3	
NO. 4	
NO. 5	

**MME**  
 MME, INC.  
 CIVIL, MECHANICAL, ELECTRICAL, PLUMBING  
 224 Walnut Ave., Suite B, Santa Cruz, CA 95060  
 Phone (831) 426-1198

**REGISTERED PROFESSIONAL ENGINEER**  
 No. 53991  
 Robert R. Williams  
 CIVIL ENGINEERING

**REGNART ROAD IMPROVEMENTS PHASE 1**

PREPARED AT THE REQUEST OF  
 THE BOARD OF SUPERVISORS  
 COUNTY OF SANTA CRUZ  
 CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS  
 1000 TOWN CENTER DRIVE  
 CUPERTINO, CA 95014-2202

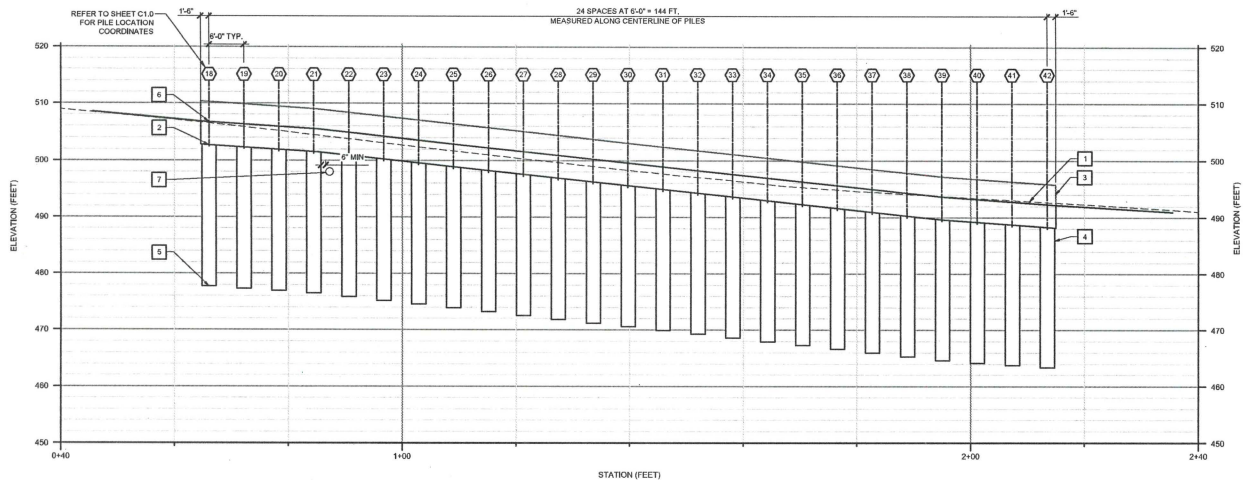
**INBOARD WALL B PROFILE**

DRAWN BY: JHR  
 CHECKED BY: BR  
 JOB NUMBER: 20144  
 SHEET

**S2.1**



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### OUTBOARD WALL C PROFILE

SCALE: 1" = 10'

#### SHEET NOTES

- 1 EXISTING GRADE AT C/L OF PILEGRADE BEAM
- 2 TOP OF PILE = TOP OF DRILLED HOLE, TYP
- 3 TYPE #42 CONCRETE BARRIER, TYP
- 4 CONCRETE PIN PILE, TYP
- 5 PILE TIP = BOTTOM OF DRILLED HOLE, TYP
- 6 TOP OF GRADE BEAM, TYP
- 7 (E) STORM DRAIN - POTHOLE TO DETERMINE LOCATION

#### GENERAL DESIGN NOTES

##### INBOARD SOLDIER PILE WALL A AND B SOIL PARAMETERS:

##### LATERAL ACTIVE PRESSURES:

- 3:1 BACKSLOPE: Pa = 48 psf/ft
- 2.5:1 BACKSLOPE: Pa = 50 psf/ft
- 2:1 BACKSLOPE: Pa = 65 psf/ft

##### PASSIVE PRESSURES:

- Pp = 0 psf/ft FOR UPPER 4'
- Pp = 500 psf/ft FOR BELOW 4'

##### OUTBOARD SHEAR PIN PILE WALL C SOIL PARAMETERS:

- LATERAL ACTIVE PRESSURE: 40 psf/ft
- VEHICULAR SURCHARGE PRESSURE: 250 psf
- SEISMIC LOADING: 20#/ft
- PASSIVE PRESSURE: 625 psf/ft FOR SEISMIC LOADING

SEE SHEET S3.0 FOR MATERIAL SPECIFICATIONS

#### WALL DATA

PILE NUMBER	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
PILE DIAMETER (IN)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
TOP OF GRADE BEAM (FT)	506.73	506.31	505.90	505.49	504.85	504.19	503.53	502.87	502.21	501.55	500.89	500.23	599.57	498.90	498.24	497.58	496.92	496.26	495.60	494.94	494.28	493.62	492.96	492.30	491.64	490.98
TOP OF PILE ELEVATION (FT)	502.73	502.31	501.90	501.49	500.85	500.19	499.53	498.87	498.21	497.55	496.89	496.23	495.57	494.90	494.24	493.58	492.92	492.26	491.60	490.94	490.28	489.62	488.96	488.30	487.64	486.98
PILE TIP ELEVATION (FT)	477.73	477.31	476.90	476.49	475.85	475.19	475.53	473.87	473.21	472.55	471.89	471.23	470.57	469.90	469.24	468.58	467.92	467.26	466.60	465.94	465.28	464.62	463.96	463.30	462.64	461.98

DATE	3/1/2022
BY	TRC
DESCRIPTION	
REV	NO. REV



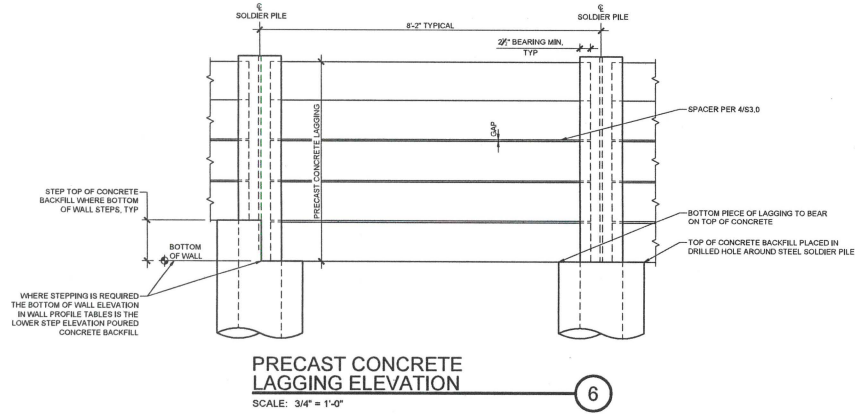
REGNART ROAD IMPROVEMENTS  
PHASE 1  
PREPARED AT THE REQUEST OF  
CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS  
15100 TORRE AVENUE  
CUPERTINO, CALIFORNIA 95014

OUTBOARD WALL C PROFILE

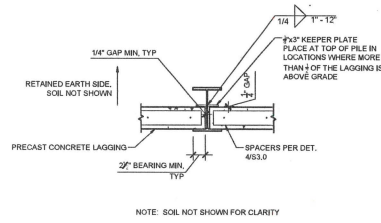
DRAWN BY: BR  
CHECKED BY: DH  
JOB NUMBER: 20144

SHEET  
S2.2

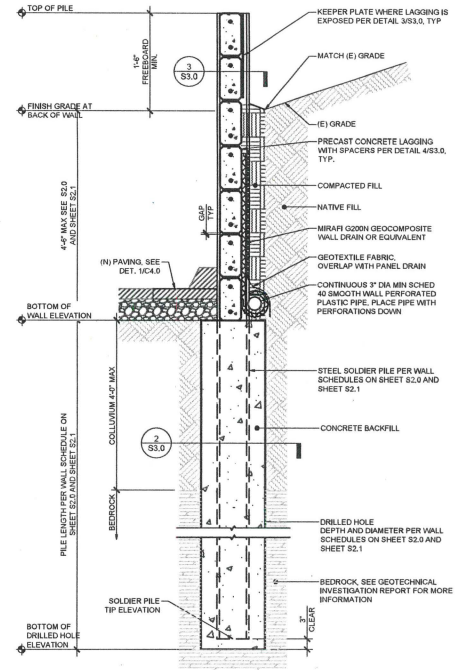
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**PRECAST CONCRETE LAGGING ELEVATION**  
SCALE: 3/4" = 1'-0"  
6



**SECTION - SOLDIER PILE LAGGING SUPPORT DETAIL**  
SCALE: 3/4" = 1'-0"  
3

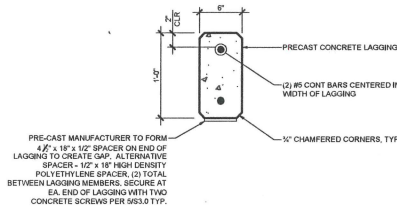


**SECTION - SOLDIER PILE**  
SCALE: 3/4" = 1'-0"  
1

**SPECIAL INSPECTION**  
SPECIAL INSPECTION IS REQUIRED FOR THE PRECAST CONCRETE LAGGING AT THE FABRICATION SITE

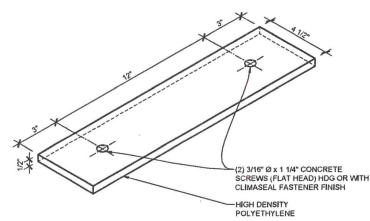
**MATERIAL SPECIFICATIONS**  
**CONCRETE**  
BACKFILL FOR SOLDIER PILES  $f_c = 3,600$  PSI  
ALL OTHER CONCRETE  $f_c = 4,000$  PSI  
**STRUCTURAL STEEL**  
SOLDER PILES  $F_y = 50,000$  PSI

**SHEET NOTES AND MATERIAL SPECIFICATIONS**  
SCALE: NTS  
7

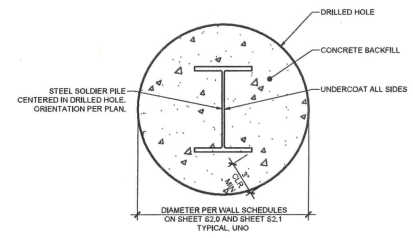


**PRECAST CONCRETE LAGGING**  
SCALE: 1 1/2" = 1'-0"  
4

NOTE:  
1. FIELD CUTTING OF LAGGING TO LENGTH IS NOT RECOMMENDED. SHOULD CUTTING BECOME NECESSARY, EXPOSED STEEL REINFORCING SHALL BE REMOVED TO 1/2" FROM FACE OF CONCRETE. FILL VOID WITH HAND PACKED GROUT FOR PROTECTIVE COVER.



**ALTERNATIVE SPACER DETAIL**  
SCALE: 3" = 1'-0"  
5



**DRILLED HOLE/SOLDIER PILE**  
SCALE: 1 1/2" = 1'-0"  
2

NOTE:  
1. CLEAN AND PAINT FROM TOP OF STEEL TO 5 FEET BELOW CONCRETE

DATE	9/10/2022
BY	RTC
DESCRIPTION	
REV.	NO. BY DATE
1	
2	
3	
4	
5	

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**REGISTERED PROFESSIONAL ENGINEER**  
No. 53891  
R. V. L. V.

**REGNART ROAD IMPROVEMENTS PHASE 1**  
PREPARED AT THE REQUEST OF PUBLIC WORKS  
CITY OF CUPERTINO, 1000 CANTON AVENUE  
CUPERTINO, CALIFORNIA 95014-2202

**INBOARD WALL DETAILS SHEET NOTES MATERIAL SPECIFICATIONS**

DRAWN BY: JHR  
CHECKED BY: BR  
JOB NUMBER: 20144  
SHEET

**S3.0**





# Regnart Phase 1 Final Plans

Final Audit Report

2023-04-27

Created:	2023-04-27
By:	Julia Kinst (juliak@cupertino.org)
Status:	Signed
Transaction ID:	CBJCHBCAABAAZN54SI5nkVEKXwxiaWy3vUxyAZaUO8H0

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