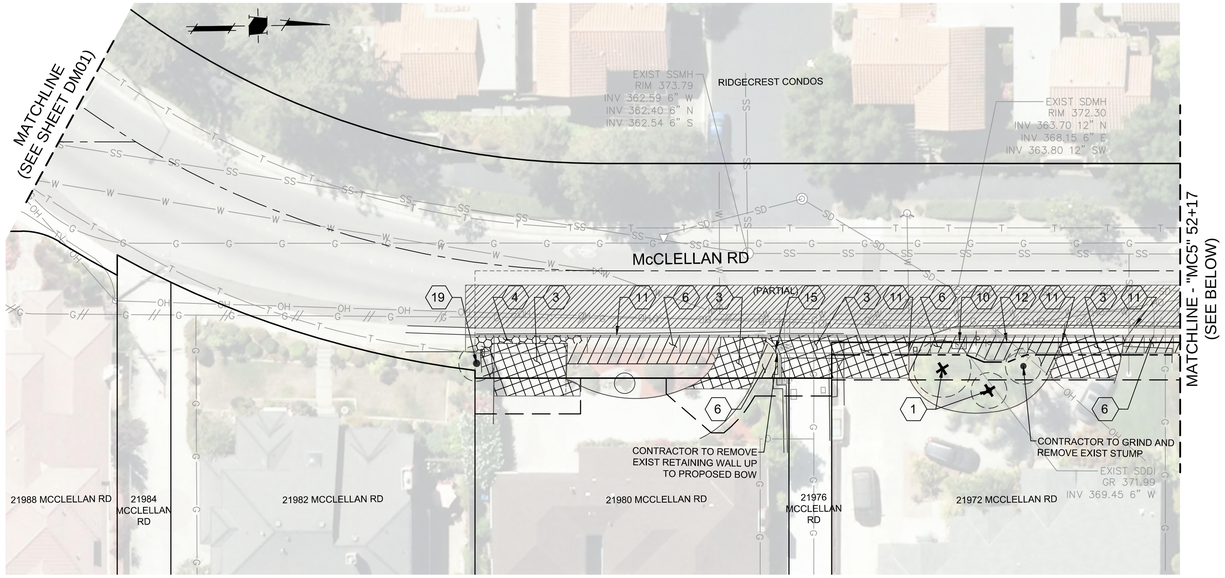
GENERAL SHEET NOTES

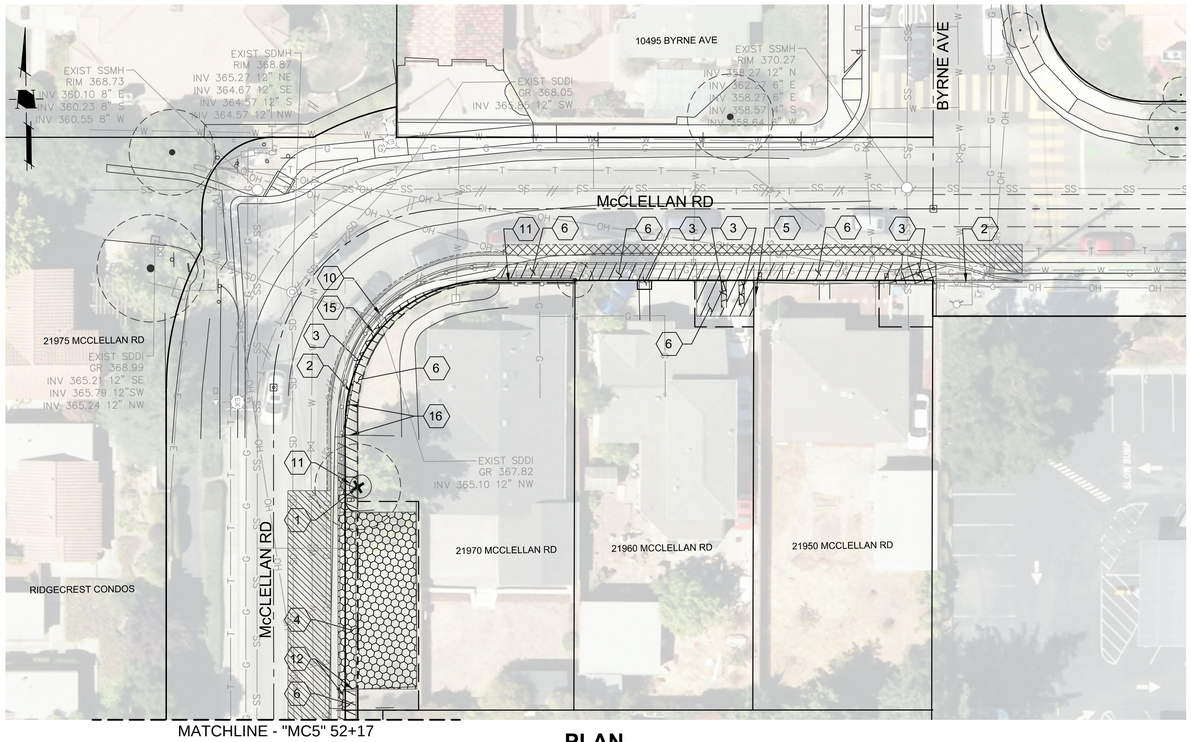
1. PAVEMENT AND SUBGRADE REMOVAL WITHIN THE ROADWAY NECESSARY FOR CONSTRUCTION OF THE PROJECT SHALL BE PAID FOR AS ROADWAY EXCAVATION. ROADWAY EXCAVATION LIMITS ARE NOT SHOWN ON THESE SHEETS.
2. RELOCATIONS ARE SHOWN ON IP SHEETS.

SHEET KEYNOTES

1. REMOVE EXIST TREE (SEE NOTE 30, SHEET NT01)
2. REMOVE EXIST CURB AND GUTTER
3. REMOVE EXIST CONCRETE SIDEWALK/ DRIVEWAY/ WALKWAY
4. REMOVE EXIST ASPHALT CONCRETE DRIVEWAY/ WALKWAY
5. REMOVE EXIST WOOD FENCE IN CONFLICT WITH WORK (SEE NOTE 33, SHEET NT01)
6. CLEAR AND GRUB EXIST VEGETATION
7. REMOVE EXIST VALLEY GUTTER
8. REMOVE EXIST ASPHALT CONC DIKE
9. NOT USED
10. REMOVE EXIST STORM DRAIN INLET AND PIPE
11. REMOVE EXIST PAVERS
12. REMOVE EXIST WOODEN HEADERS
13. NOT USED
14. REMOVE EXIST ROADSIDE SIGN
15. REMOVE EXIST RETAINING WALL
16. REMOVE EXIST CHAIN LINK FENCE IN CONFLICT WITH WORK (SEE NOTE 33, SHEET NT01)
17. PROTECT EXIST UTILITY IN PLACE
18. PROTECT EXIST MAILBOX IN PLACE
19. PROTECT EXIST TREE IN PLACE
20. REPLACE THRU THE CURB DRAIN (SEE DETAIL 16, SHEET DT02)
21. ADJUST CLEANOUT TO GRADE (SEE DETAIL 6, SHEET DT02)
22. ADJUST WATER METER TO GRADE (SEE DETAIL 2, SHEET DT01)
23. ADJUST UTILITY VAULT TO GRADE (WBO)
24. RELOCATE EXIST WOOD FENCE
25. RELOCATE CHAIN LINK FENCE
26. RELOCATE MAILBOX (SEE NOTE 32, SHEET NT01)
27. RELOCATE UTILITY POLE AND GUY WIRES (WBO)
28. RELOCATE ROADSIDE SIGN
29. ADJUST WATER VALVE TO GRADE (SEE DETAIL 10, SHEET DT02)
30. RELOCATE WATER METER BOX (WBO)
31. RELOCATE UTILITY BOX (WBO)
32. CONSTRUCT A2-6 CURB AND GUTTER PER CITY OF CUPERTINO STANDARD DETAIL 1-16
33. CONSTRUCT SIDEWALK PER CITY OF CUPERTINO STANDARD DETAIL 1-19
34. CONSTRUCT A1-6 CURB PER CITY OF CUPERTINO STANDARD DETAIL 1-16
35. RELOCATE FIRE HYDRANT (WBO)
36. CONNECT TO EXIST RCP WITH CONCRETE COLLAR (SEE DETAIL 5, SHEET DT02)
37. CONSTRUCT RETAINING WALL (SEE DETAIL 11, SHEET DT02)
38. ADJUST MANHOLE TO GRADE
39. PROTECT EXISTING FENCE AND POSTS IN PLACE



PLAN
SCALE: 1" = 20'



PLAN
SCALE: 1" = 20'

REMOVAL LEGEND

REMOVE TREE

CLEAR & GRUB EXIST VEGETATION

REMOVE EXIST CONCRETE

REMOVE EXIST ASPHALT CONCRETE

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0 10 20 40
1 INCH = 20 FEET

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Land Use Entitlements
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Civil Engineering
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Stormwater Compliance

Date:	June 15, 2018
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Designed:	LA
Drawn:	LA
Checked:	JC
Proj. Engr:	JC
File:	489301DM01

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

REGISTERED PROFESSIONAL ENGINEER — JON CACCIOTTI — No. 82825 — CIVIL — STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR

McCLELLAN ROAD SIDEWALK IMPROVEMENTS - PHASE 2

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # 2015-19
PUBLIC WORKS INSPECTOR:
VOICE MAIL:
PROJECT ENGINEER
NAME DATE

EST. 1955

CITY OF CUPERTINO

DM02

SHEET 8 OF 14

May 2018

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GENERAL SHEET NOTES

1. TOP OF CURB ELEVATIONS AT DRIVEWAYS AND OTHER DEPRESSED AREAS REPRESENT THEORETICAL FULL HEIGHT CURB ELEVATION. DEPRESSED CURB SECTIONS AT DRIVEWAYS SHALL BE CONSTRUCTED 0.45' BELOW ELEVATION SHOWN PER CITY STANDARD DETAIL.
2. TYPE 1B POLE FOR CITY INSTALLED RADAR FEEDBACK SIGN. 13' POLE SHALL BE PLACED 18" BEHIND FACE OF CURB AND 12" SOUTH OF RELOCATED PG&E POLE.

SHEET KEYNOTES

1. REMOVE EXIST TREE (SEE NOTE 30, SHEET NT01)
2. REMOVE EXIST CURB AND GUTTER
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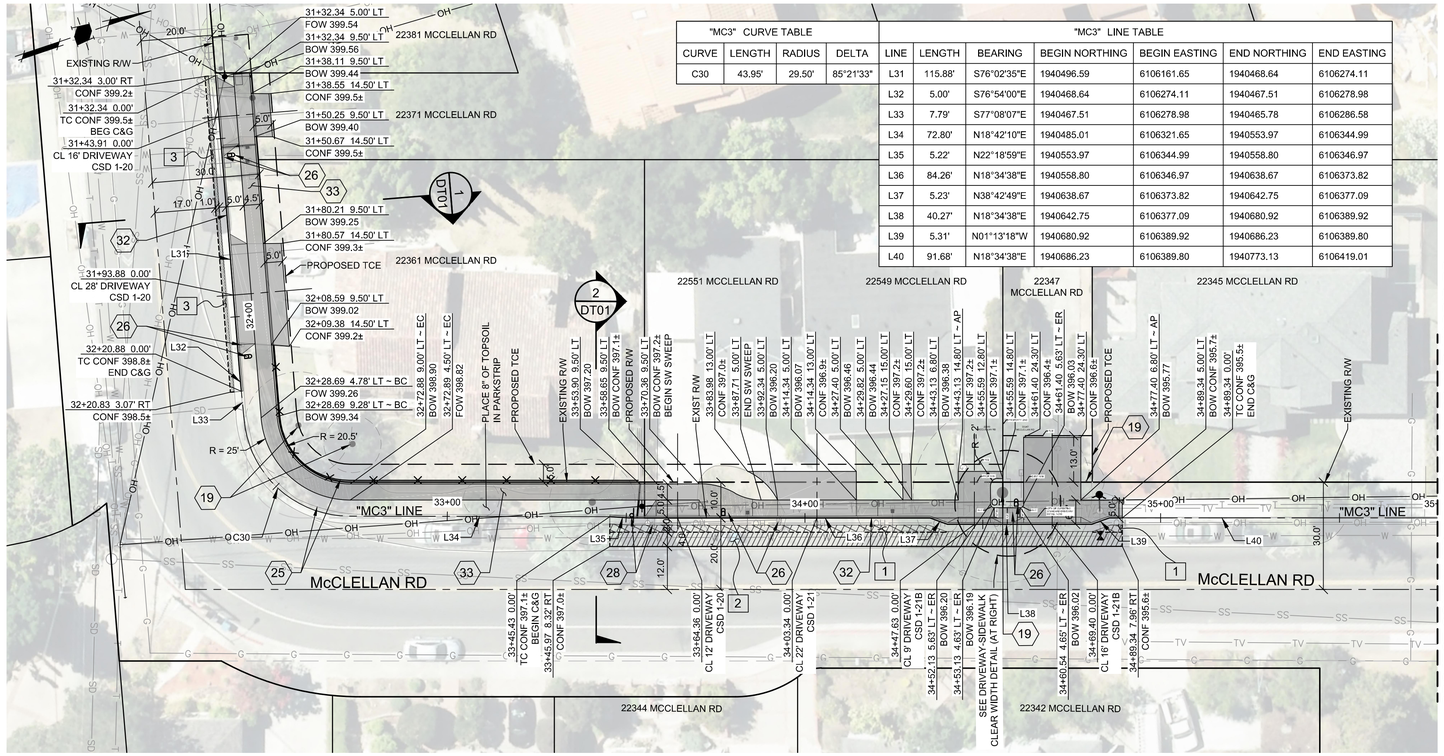
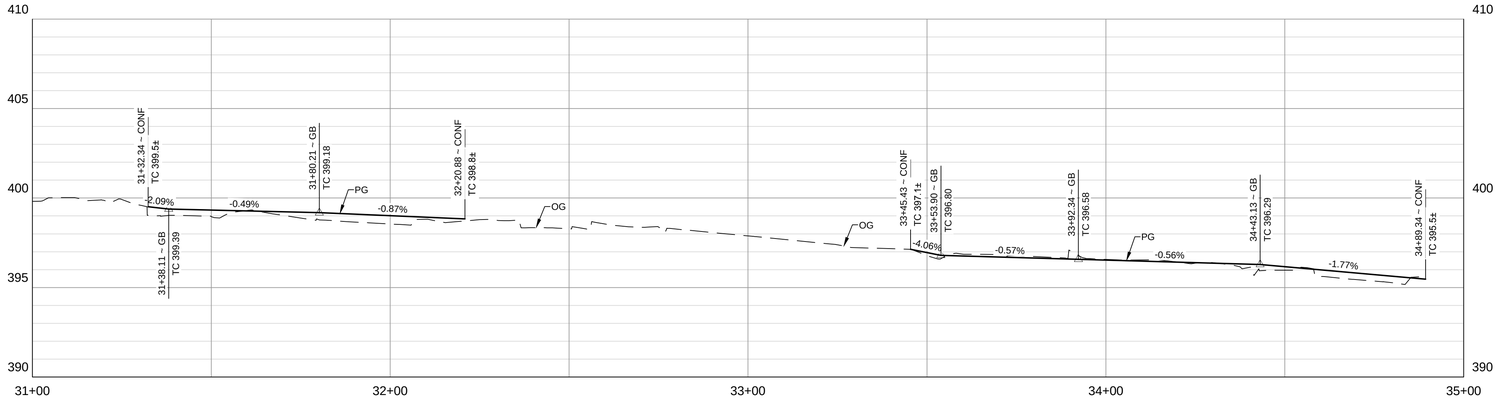


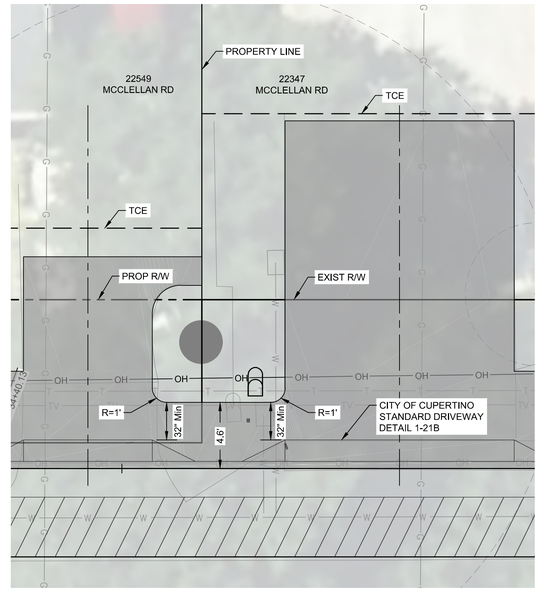
"MC3" CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C30	43.95'	29.50'	85°21'33"

"MC3" LINE TABLE						
LINE	LENGTH	BEARING	BEGIN NORTHING	BEGIN EASTING	END NORTHING	END EASTING
L31	115.88'	S76°02'35"E	1940496.59	6106161.65	1940468.64	6106274.11
L32	5.00'	S76°54'00"E	1940468.64	6106274.11	1940467.51	6106278.98
L33	7.79'	S77°08'07"E	1940467.51	6106278.98	1940465.78	6106286.58
L34	72.80'	N18°42'10"E	1940485.01	6106321.65	1940553.97	6106344.99
L35	5.22'	N22°18'59"E	1940553.97	6106344.99	1940558.80	6106346.97
L36	84.26'	N18°34'38"E	1940558.80	6106346.97	1940638.67	6106373.82
L37	5.23'	N38°42'49"E	1940638.67	6106373.82	1940642.75	6106377.09
L38	40.27'	N18°34'38"E	1940642.75	6106377.09	1940680.92	6106389.92
L39	5.31'	N01°13'18"W	1940680.92	6106389.92	1940686.23	6106389.80
L40	91.68'	N18°34'38"E	1940686.23	6106389.80	1940773.13	6106419.01

PLAN
SCALE: 1" = 20'



"MC3" TC PROFILE
SCALE: 1" = 20' H; 1" = 5' V



PLAN
DRIVEWAY-SIDEWALK CLEAR WIDTH DETAIL
SCALE: 1" = 5'

CA: 811

0 10 20 40
1 INCH = 20 FEET

PAVEMENT DELINEATION LEGEND		ROADWAY SECTION LEGEND	
22	STRIPING DETAIL 22 PER CALTRANS STANDARD PLANS A20A - A24F	1	4" HMA (TYPE A) ON 8" AB (CLASS 2)
MARKING	PAVEMENT MARKING (AS SHOWN) PER CALTRANS STANDARD PLANS A20A - A24F	2	2" AC GRIND AND VARIABLE DEPTH OVERLAY
		3	12" FDAC PLUG
		4	DRIVEWAY SECTION (SEE SHEET NT01, NOTE 18)

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

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May 2018

HMH
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Land Use Entitlements
Land Planning
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REGISTERED PROFESSIONAL ENGINEER — JON CACCIOTTI — No. 82825 — CIVIL — STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR

McCLELLAN ROAD SIDEWALK IMPROVEMENTS - PHASE 2

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # 2015-19
PUBLIC WORKS INSPECTOR:
VOICE MAIL:
PROJECT ENGINEER
NAME DATE

EST. 1955

CITY OF CUPERTINO

IP01

SHEET 9 OF 14

GENERAL SHEET NOTES

1. TOP OF CURB ELEVATIONS AT DRIVEWAYS AND OTHER DEPRESSED AREAS REPRESENT THEORETICAL FULL HEIGHT CURB ELEVATION. DEPRESSED CURB SECTIONS AT DRIVEWAYS SHALL BE CONSTRUCTED 0.45' BELOW ELEVATION SHOWN PER CITY STANDARD DETAIL.
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34. CONSTRUCT A1-6 CURB PER CITY OF CUPERTINO STANDARD DETAIL 1-16
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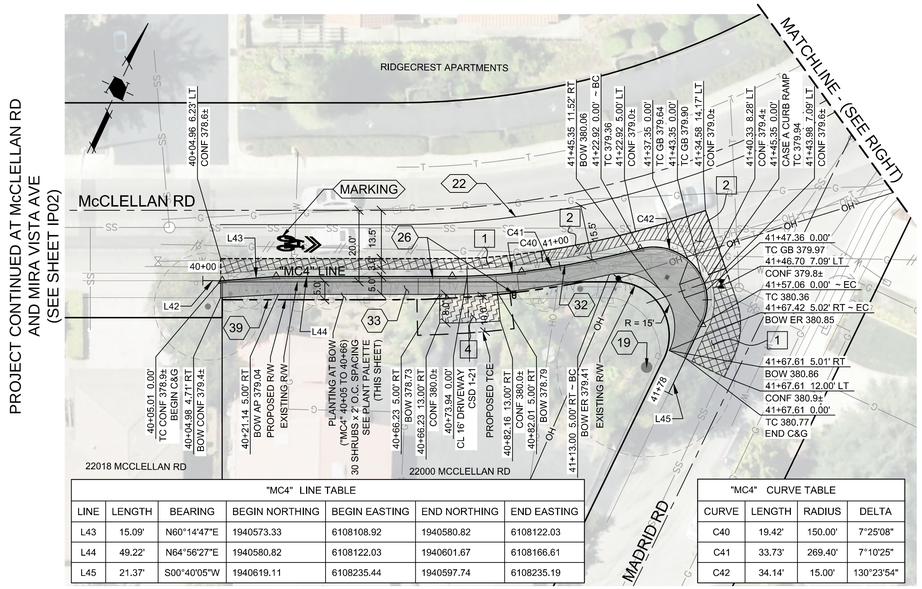


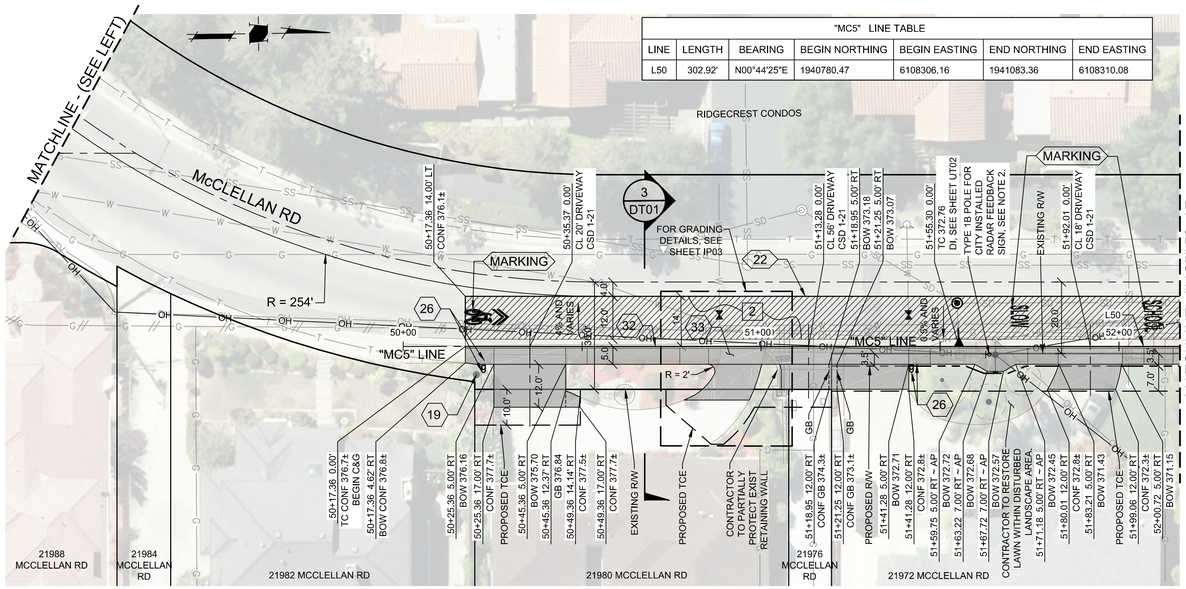
"MC4" LINE TABLE

LINE	LENGTH	BEARING	BEGIN NORTHING	BEGIN EASTING	END NORTHING	END EASTING
L43	15.09'	N60°14'47"E	1940573.33	6108108.92	1940580.82	6108122.03
L44	49.22'	N64°56'27"E	1940580.82	6108122.03	1940601.67	6108166.61
L45	21.37'	S00°40'05"W	1940619.11	6108235.44	1940597.74	6108235.19

"MC4" CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C40	19.42'	150.00'	7°25'08"
C41	33.73'	269.40'	7°10'25"
C42	34.14'	15.00'	130°23'54"

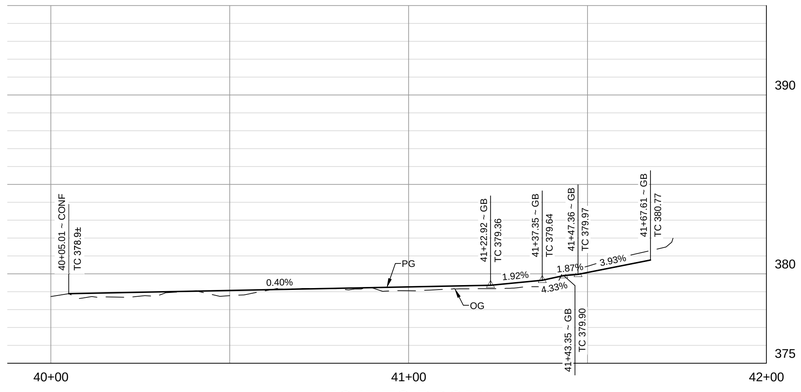
PLAN
SCALE: 1" = 20'



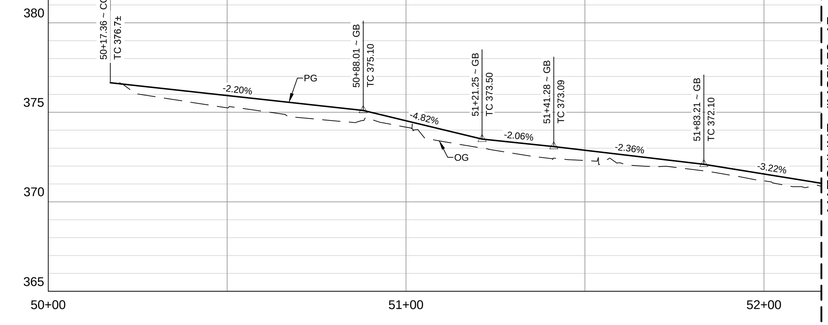
"MC5" LINE TABLE

LINE	LENGTH	BEARING	BEGIN NORTHING	BEGIN EASTING	END NORTHING	END EASTING
L50	302.92'	N00°44'25"E	1940780.47	6108306.16	1941083.36	6108310.08

PLAN
SCALE: 1" = 20'



"MC4" TC PROFILE
SCALE: 1" = 20' H; 1" = 5' V



"MC5" TC PROFILE
SCALE: 1" = 20' H; 1" = 5' V

PROPOSED PLANT PALETTE

BOTANICAL NAME	COMMON NAME	MINIMUM CONTAINER SIZE	HxW
FARGESIA ROBUSTA 'CAMPBELL'	CLUMPING BAMBOO	1 GALLON	UP TO 12' HIGH
FARGESIA SP. 'RUFA'	CLUMPING BAMBOO	1 GALLON	UP TO 10' HIGH
FARGESIA SP. 'SCABRIDA'	CLUMPING BAMBOO	1 GALLON	UP TO 12' HIGH
THAMNOCALAMUS TESSELLATUS	CLUMPING BAMBOO	1 GALLON	UP TO 12' HIGH

PLANTING PLAN NOTES

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL PLANT MATERIAL AS DESCRIBED.

UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, STRUCTURAL IMPROVEMENTS AND HARDSCAPE SHALL BE INSTALLED PRIOR TO PLANTING OPERATIONS.

PLANT LIST ON THE DRAWINGS SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL TAKEOFF AND VERIFY SIZES AND QUANTITIES BY PLAN CHECK.

FERTILIZERS, ORGANIC AMENDMENT, AND SOIL CONDITIONERS SHALL BE SUBMITTED PRIOR TO INCORPORATION. CONTRACTOR SHALL FURNISH TO THE CITY'S AUTHORIZED REPRESENTATIVE A CERTIFICATE OF COMPLIANCE FOR SUCH FURNISHED MATERIALS.

ALL PLANT MATERIAL SHALL RECEIVE SUPPLEMENTAL IRRIGATION WATER DURING THE CONTRACTORS MAINTENANCE PERIOD.

LOCATIONS OF PLANT MATERIAL SHALL BE REVIEWED ON SITE BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.

ALL PLANTING AREAS TO RECEIVE 3" THICK BARK MULCH LAYER. IN THE EVENT THAT BARK MULCH EXISTS ON SITE, CONTRACTOR SHALL PROVIDE SAMPLE OF EXISTING AND PROPOSED MATCHING BARK MULCH FOR APPROVAL. OTHERWISE, BARK MULCH SHALL BE LYNGSO SMALL FIR BARK (3/4" TO 1-1/2") OR APPROVED EQUAL.

PAVEMENT DELINEATION LEGEND		ROADWAY SECTION LEGEND	
22	STRIPING DETAIL 22 PER CALTRANS STANDARD PLANS A20A - A24F	1	4" HMA (TYPE A) ON 8" AB (CLASS 2)
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REGISTERED PROFESSIONAL ENGINEER JON CACCIOTTI No. 82825 CIVIL STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR

McCLELLAN ROAD SIDEWALK IMPROVEMENTS - PHASE 2

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FOR CITY OF CUPERTINO USE
PROJECT # 2015-19
PUBLIC WORKS INSPECTOR:
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NAME DATE

CITY OF CUPERTINO
IP02
SHEET 10 OF 14

S:\PROJECTS\4893000\4893031P\WPLOT DRAWINGS\MCCLELLAN PHASE II\4893031IP01.DWG

May 2018

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10. REMOVE EXIST STORM DRAIN INLET
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14. REMOVE EXIST ROADSIDE SIGN
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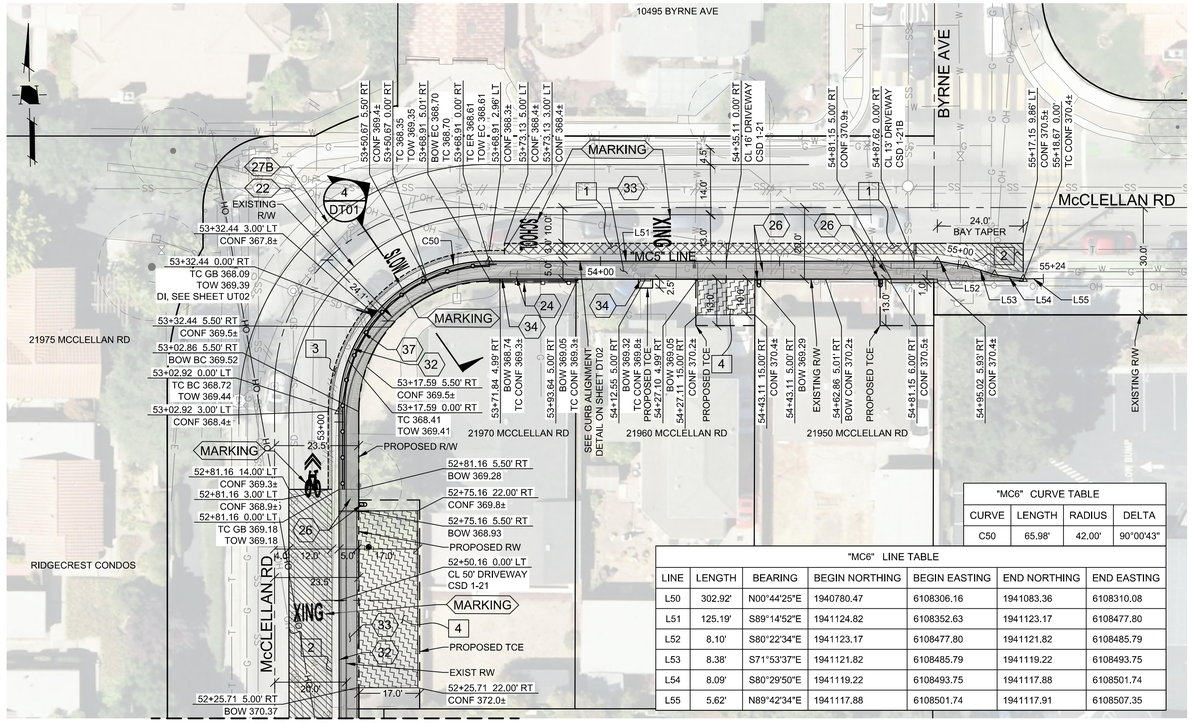


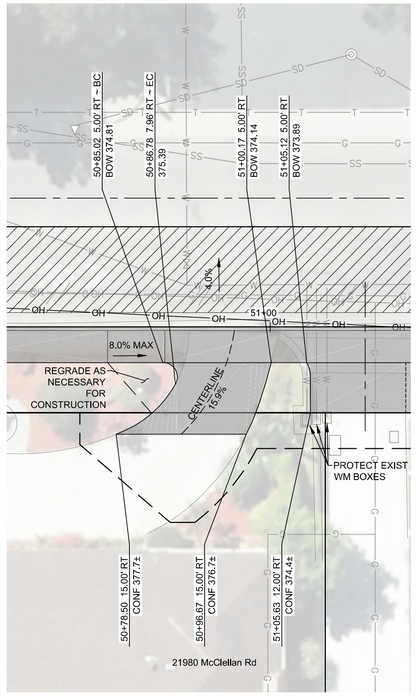
"MC6" CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C50	65.98'	42.00'	90°00'43"

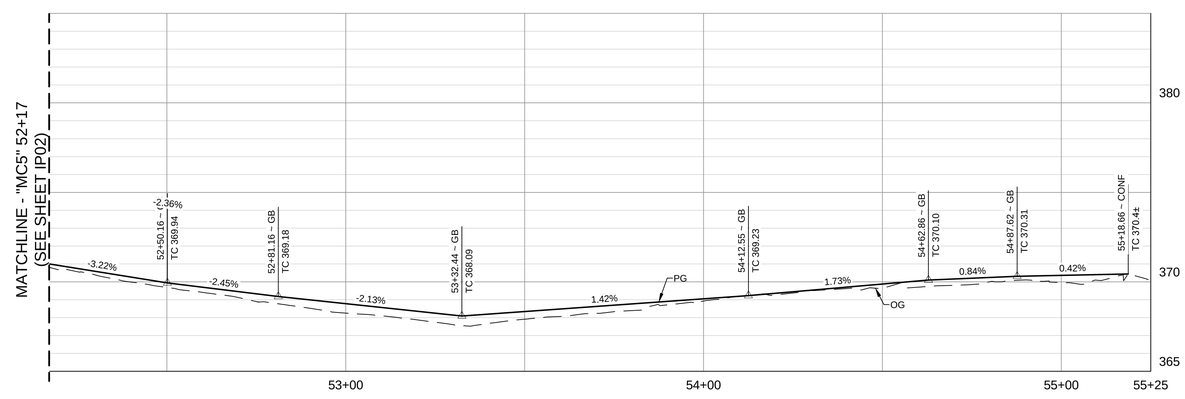
"MC6" LINE TABLE

LINE	LENGTH	BEARING	BEGIN NORTHING	BEGIN EASTING	END NORTHING	END EASTING
L50	302.92'	N00°44'25"E	1940780.47	6108306.16	1941083.36	6108310.08
L51	125.19'	S89°14'52"E	1941124.82	6108352.63	1941123.17	6108477.80
L52	8.10'	S80°22'34"E	1941123.17	6108477.80	1941121.82	6108485.79
L53	8.38'	S71°53'37"E	1941121.82	6108485.79	1941119.22	6108493.75
L54	8.09'	S80°29'50"E	1941119.22	6108493.75	1941117.88	6108501.74
L55	5.62'	N89°42'34"E	1941117.88	6108501.74	1941117.91	6108507.35

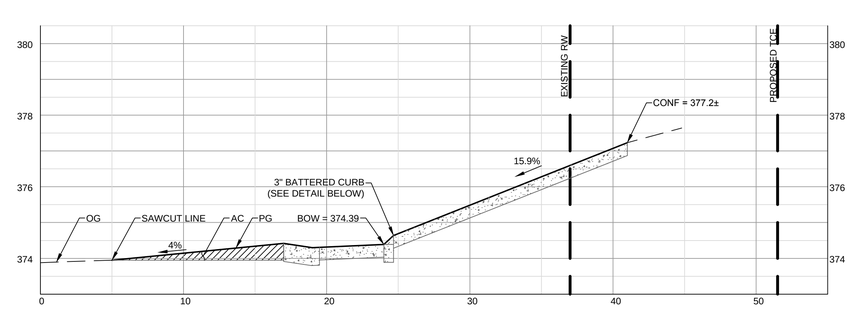
PLAN
SCALE: 1" = 20'



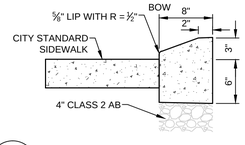
PLAN
SCALE: 1" = 10'



"MC5" TC PROFILE
SCALE: 1" = 20' H; 1" = 5' V



21980 MCCLELLAN ROAD DRIVEWAY CENTERLINE PROFILE
SCALE: 1" = 5' H; 1" = 2' V



1 — 3" BATTERED CURB DETAIL
SCALE 1" = 10'

PAVEMENT DELINEATION LEGEND		ROADWAY SECTION LEGEND	
22	STRIPING DETAIL 22 PER CALTRANS STANDARD PLANS A20A - A24F	1	4" HMA (TYPE A) ON 8" AB (CLASS 2)
MARKING	PAVEMENT MARKING (AS SHOWN) PER CALTRANS STANDARD PLANS A20A - A24F	2	2" AC GRIND AND VARIABLE DEPTH OVERLAY
		3	12" FDAC PLUG
		4	DRIVEWAY SECTION (SEE SHEET NT01, NOTE 18)

CALL BEFORE YOU DIG — UNDERGROUND SERVICE ALERT — CA: 811

0 10 20 40
1 INCH = 20 FEET

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May 2018

HMH
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San Jose, CA 95131 HMHca.com
Land Use Entitlements
Land Planning
Landscape Architecture
Civil Engineering
Utility Design
Land Surveying
Stormwater Compliance

Date:	June 15, 2018
Scale:	1" = 20'
Designed:	LA
Drawn:	LA
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File:	489301IP01

△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

REGISTERED PROFESSIONAL ENGINEER — JON CACCIOTTI — No. 82825 — CIVIL — STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR

McCLELLAN ROAD SIDEWALK IMPROVEMENTS - PHASE 2

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # 2015-19
PUBLIC WORKS INSPECTOR:
VOICE MAIL:
PROJECT ENGINEER
NAME DATE

EST. 1955

CITY OF CUPERTINO

IP03

SHEET 11 OF 14

GENERAL SHEET NOTES

1. CONTRACTOR SHALL POTHOLE EXISTING WATERLINE PRIOR TO CONSTRUCTION OF GRAVITY RETAINING WALL TO DETERMINE IF IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT IS IDENTIFIED.

SHEET KEYNOTES

1. REMOVE EXIST TREE (SEE NOTE 30, SHEET NT01)
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4. REMOVE EXIST ASPHALT CONCRETE DRIVEWAY/ WALKWAY
5. REMOVE EXIST WOOD FENCE IN CONFLICT WITH WORK (SEE NOTE 33, SHEET NT01)
6. CLEAR AND GRUB EXIST VEGETATION
7. REMOVE EXIST VALLEY GUTTER
8. REMOVE EXIST ASPHALT CONC DIKE
9. NOT USED
10. REMOVE EXIST STORM DRAIN INLET AND PIPE
11. REMOVE EXIST PAVERS
12. REMOVE EXIST WOODEN HEADERS
13. NOT USED
14. REMOVE EXIST ROADSIDE SIGN
15. REMOVE EXIST RETAINING WALL
16. REMOVE EXIST CHAIN LINK FENCE IN CONFLICT WITH WORK (SEE NOTE 33, SHEET NT01)
17. PROTECT EXIST UTILITY IN PLACE
18. PROTECT EXIST MAILBOX IN PLACE
19. PROTECT EXIST TREE IN PLACE
20. REPLACE THRU THE CURB DRAIN (SEE DETAIL 17, SHEET DT02)
21. ADJUST CLEANOUT TO GRADE (SEE DETAIL 6, SHEET DT02)
22. ADJUST WATER METER TO GRADE (SEE DETAIL 2, SHEET DT01)
23. ADJUST UTILITY VAULT TO GRADE (WBO)
24. RELOCATE EXIST WOOD FENCE
25. RELOCATE CHAIN LINK FENCE
26. RELOCATE MAILBOX (SEE NOTE 32, SHEET NT01)
27. RELOCATE UTILITY POLE AND GUY WIRES (WBO)
28. RELOCATE ROADSIDE SIGN
29. ADJUST WATER VALVE TO GRADE (SEE DETAIL 10, SHEET DT02)
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31. RELOCATE UTILITY BOX (WBO)
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35. RELOCATE FIRE HYDRANT (WBO)
36. CONNECT TO EXIST RCP WITH CONCRETE COLLAR (SEE DETAIL 5, SHEET DT02)
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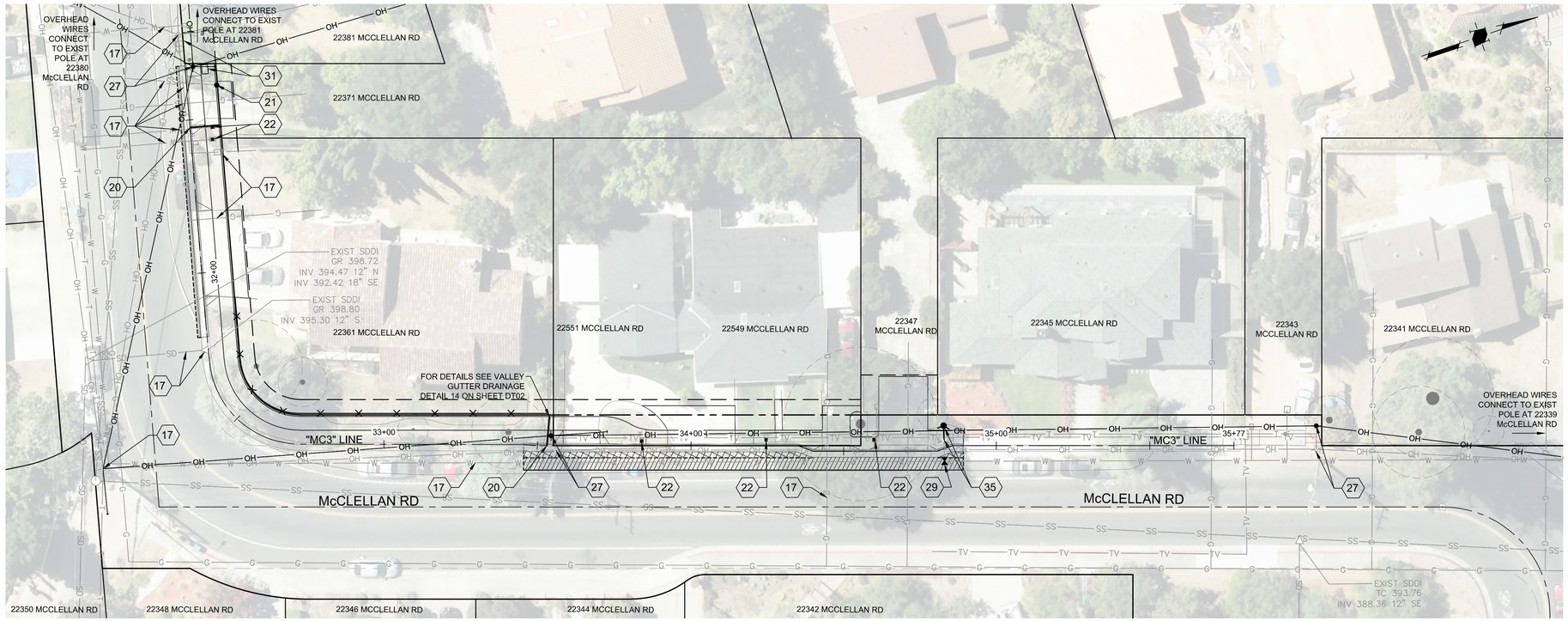
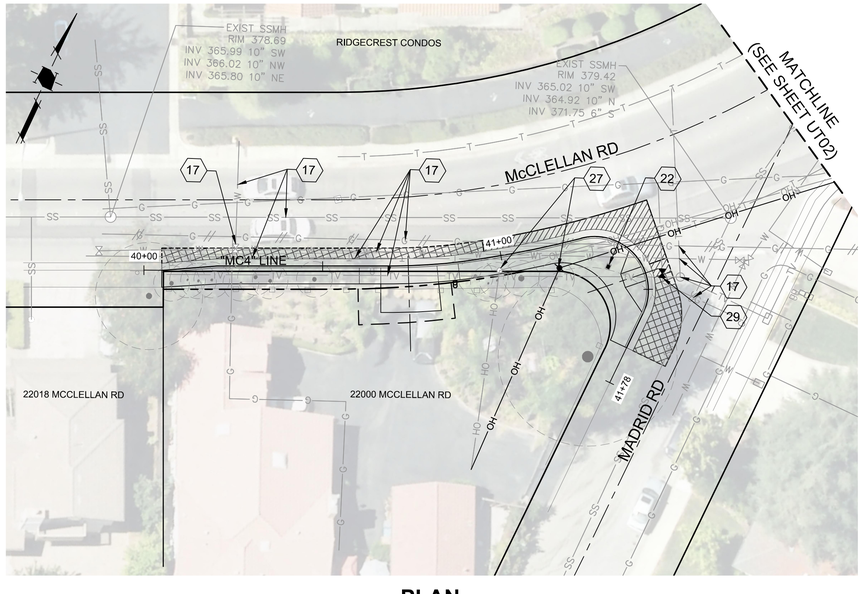


PLAN
SCALE: 1" = 20'

PROJECT CONTINUED AT McCLELLAN RD AND MADRID RD (SEE BELOW)



PROJECT CONTINUED AT McCLELLAN RD AND MIRA VISTA AVE (SEE ABOVE)

PLAN
SCALE: 1" = 20'

CALL BEFORE YOU DIG 811 UNDERGROUND SERVICE ALERT CA: 811

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1 INCH = 20 FEET

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REGISTERED PROFESSIONAL ENGINEER JON CACCIOTTI No. 82825 CIVIL STATE OF CALIFORNIA

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McCLELLAN ROAD SIDEWALK IMPROVEMENTS - PHASE 2

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # 2015-19
PUBLIC WORKS INSPECTOR:
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CITY OF CUPERTINO

UT01

SHEET 12 OF 14

May 2018

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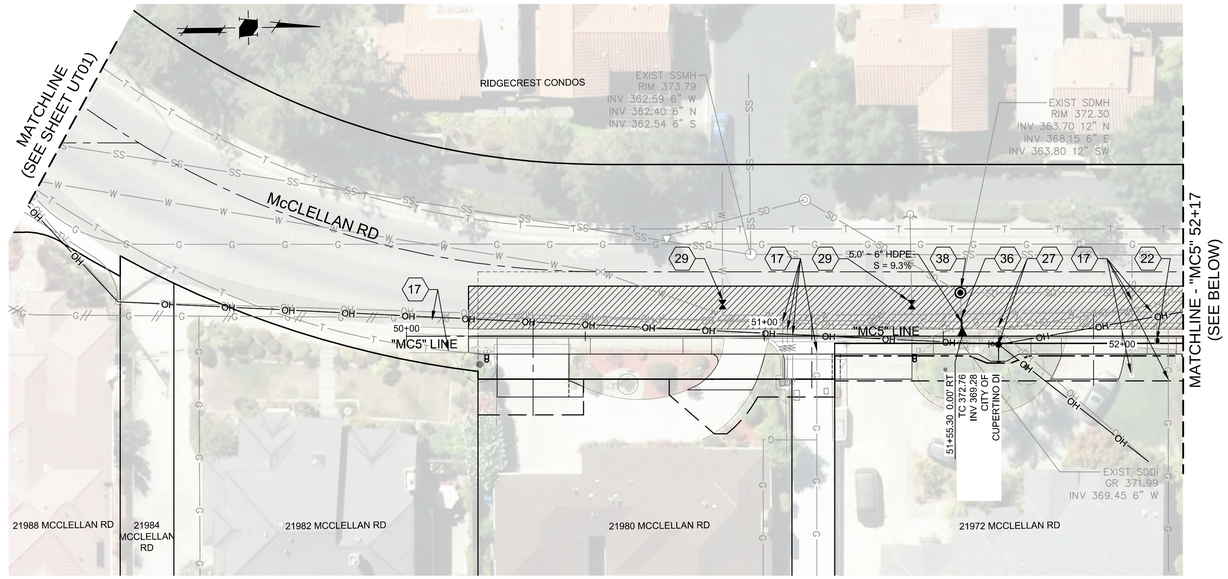
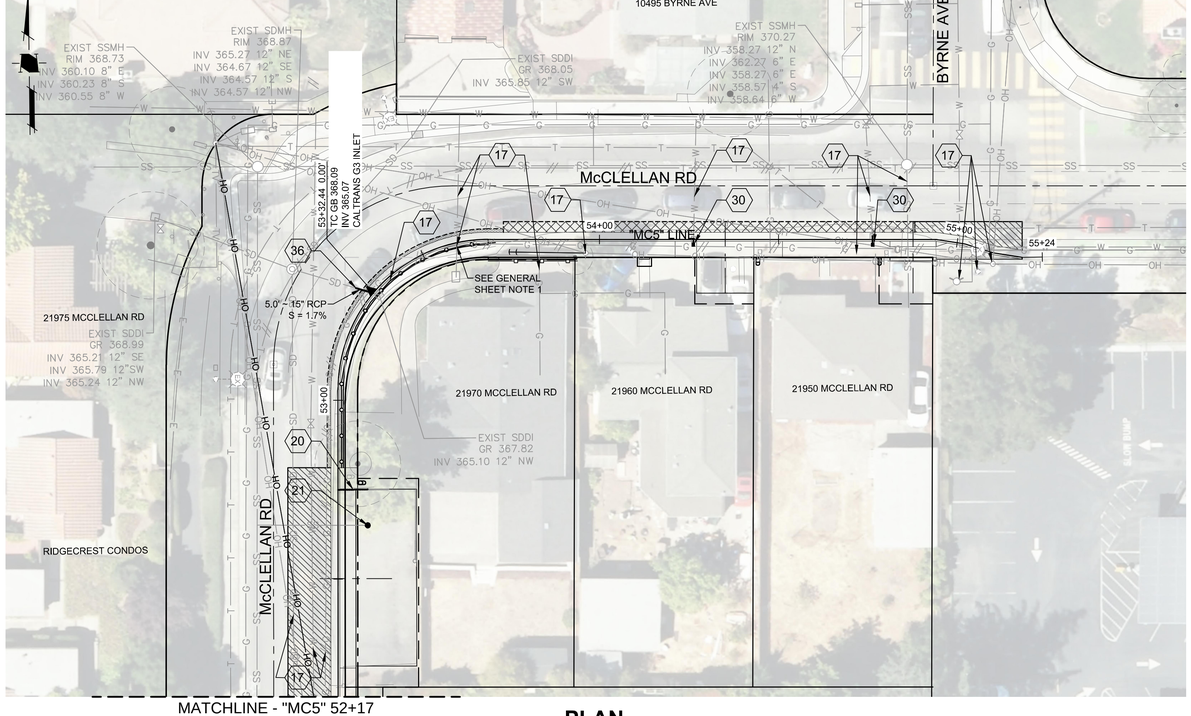


PLAN
SCALE: 1" = 20'



PLAN
SCALE: 1" = 20'

CA: 811

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May 2018

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REGISTERED PROFESSIONAL ENGINEER JON CACCIOTTI No. 82825 CIVIL STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR

McCLELLAN ROAD SIDEWALK IMPROVEMENTS - PHASE 2

CUPERTINO CALIFORNIA

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EST. 1955

CITY OF CUPERTINO

UT02

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 baylands.

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 conditionally 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:

1. A fine not to exceed $100 for a first violation
2. A fine not to exceed $200 for a second violation
3. A fine not to exceed $500 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.

*Excerpts – For complete CODE language refer to the City ofCupertino Municipal Code.

Cupertino
Building Dept: 408-777-3228
Public Works Dept: 408-777-3354

Santa Clara County Recycling Hotline: 800-533-8414
www.reducewaste.org
www.recyclestuff.com
Small Business Hazardous Waste: 408-299-7300

Cupertino Sanitary Sewer Distr 408-253-7071

Santa Clara Valley Urban Runoff Pollution Prevention Prgm 800-794-2482

State Office of Emergency Services 1-800-852-7550 (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 blow or wash into a storm drain, gutter, or street have a direct impact on local creeks and the Bay.
As a contractor, or site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your 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 **dust control** water doesn't leave site or discharge to storm drains.

Advance Planning To Prevent Pollution

- **Schedule excavation and grading activities for dry weather periods.** To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins. Use the *Erosion and Sediment Control Manual*, available from the Regional Water Quality Control Board, as a reference.
- **Control the amount of runoff** crossing your site (especially during excavation!) by using berms or temporary or permanent drainage ditches to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams or berms where appropriate.
- **Train your employees and subcontractors.** The city can provide brochures about these issues for you to distribute to workers at your construction site. Inform your subcontractors about the stormwater requirements and their own responsibilities. Use *Blueprint for a Clean Bay*, a construction best management practices guide available at our Building Dept. counter.

Good Housekeeping Practices

- **Designate one area of the site** for auto parking, vehicle refueling, and routine equipment maintenance. The designated area should be well away from streams or storm drain inlets, bermed if necessary. Make major repairs off site.
- **To prevent off-site tracking of dirt,** provide entrances with stabilized aggregate surfaces. Or provide a tire wash area.
- **Keep materials out of the rain –** prevent runoff contamination at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to storm drains, creeks, or channels.
- **Contain all litter, food wrappers, bottles and cans** - Place lidded trash and recycling bins around the site.
- **Clean up leaks, drips and other spills** immediately so they do not contaminate soil or groundwater or leave residue on paved surfaces. Use dry cleanup methods whenever possible. If you must use water, use just enough to keep the dust down.
- **Cover and maintain dumpsters**. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. Never clean out a dumpster by hosing it down on the construction site.
- **Place portable toilets** away from storm drains. Make sure portable toilets are in good working order. Check frequently for leaks.

Materials/Waste Handling

- **Practice Source Reduction** -- minimize waste when you order materials. Estimate carefully.
- **Recycle excess materials**, whenever possible, such as concrete, asphalt, scrap metal, solvents, degreasers, cleared vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries, and tires: www.reducewaste.org for info.
- **Dispose of all wastes properly.** Materials that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste. Never bury waste materials or leave them in the street or near a creek or streambed.

Permits

- In addition to local grading and building permits, you will need to obtain coverage under the State's General Construction Activity Stormwater Permit if your construction **site's disturbed area totals 5 acres or more.** Information on the General Permit can be obtained from the Regional Water Quality Control Board. (This criteria will change to one acre as of Mar. 2003.)

Landscaping, Gardening, and Pool Maintenance

Landscaping/Garden Maintenance

- **Protect stockpiles** and landscaping materials **from wind and rain** by storing them under tarps or secured plastic sheeting.
- **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.
- **Re-vegetation** is an excellent form of erosion control for any site.
- **Store** pesticides, fertilizers, and other chemicals **indoors** or in a shed or storage cabinet.
- **Use pesticides sparingly**, according to instructions on the label. Rinse empty containers, and use rinsewater as product. Dispose of rinsed, empty containers in the trash. Dispose of unused pesticides as hazardous waste.
- In Cupertino, **residents** with curbside recycling can collect lawn, garden and tree trimmings in **yardwaste toters.** Yardwaste will be collected and composted by the city's contractors. Residents are encouraged to compost yardwaste on-site themselves. Or take yardwaste to a landfill where it will be composted.
- **Landscape contractors** should **take** clippings and pruning waste **to a landfill that composts yard waste** (BFI's Newby Island and Zanker Rd. landfill are the nearest).
- **Do not blow or rake leaves into the street.**

Storm Drain Pollution from Landscaping and Swimming Pool Maintenance

Many landscaping activities expose soils and increase the likelihood that earth and garden chemicals will run off into the storm drains during irrigation or when it rains.
Swimming pool water containing chlorine and copper-based algaecides should never be discharged to storm drains. These chemicals are toxic to aquatic life.

Pool/Fountain/Spa Maintenance

Draining pools or spas

When it's time to drain a pool, spa, or fountain, please be sure to call the Cupertino Sanitary District before you start for further guidance on flow rate restrictions, backflow prevention, and handling special cleaning waste (such as acid wash). Discharge flows should be kept to the low levels typically possible through a garden hose. Higher flow rates may be prohibited by local ordinance.

- **Never discharge pool or spa water to a street or storm drain; discharge to a sanitary sewer cleanout.**
- If possible, when emptying a pool or spa, let chlorine dissipate for a few days and then recycle/reuse water by **draining it gradually onto a landscaped area.**
- **Do not use copper-based algaecides.** Control algae with chlorine or other alternatives, such as sodium bromide.

Filter Cleaning

- **Never clean a filter in the street or near a storm drain.** Rinse cartridge and diatomaceous earth filters onto a dirt area, and spade filter residue into soil. Dispose of spent diatomaceous earth in the garbage.
- **If there is no suitable dirt area**, call Cupertino Sanitary for instructions on discharging filter backwash or rinsewater to the sanitary sewer.

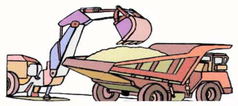
Earth-Moving Activities

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, smother aquatic life, and destroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing 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.
- **Protect downslope drainage courses, streams, and storm drains** with wattles, or temporary drainage swales. Use check dams or ditches to **divert runoff around excavations**. Refer to the Regional Water Quality Control Board's *Erosion and Sediment Control Field Manual* for proper erosion and sediment control measures.
- **Cover stockpiles** and excavated soil with secured tarps or plastic sheeting.



Dewatering Operations

Storm Drain Pollution From Dewatering Activities

Be sure to call your city's storm water inspector at 408-472-9907 before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, and sediment trap may be required. Reuse water for dust control, irrigation or another on-site purpose to the greatest extent possible.

Check for Sediment or Toxic Pollutants

- Check for odors, discoloration, or an oily sheen on groundwater.
- Ask your city inspector whether the groundwater must be tested by a certified laboratory.
- Depending on the test results, you may be allowed to discharge pumped groundwater to the storm drain OR you may be required to discharge to the sanitary sewer or collect and haul the water off-site for treatment and disposal at an appropriate treatment facility.
- When discharging to a storm drain, protect the inlet using a barrier of burlap bags filled with drain rock, or cover inlet with filter fabric anchored under the grate.
- Contact Cupertino Sanitary District at 253-7071 prior to discharging to the sanitary sewer.

Heavy Equipment Operation

Stormwater Pollution from Heavy Equipment on Construction Sites

Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze or other fluids on the construction site are common sources of storm drain pollution. Prevent spills and leaks by isolating equipment from runoff channels, and by watching for leaks and other maintenance problems. Remove construction equipment from the site as soon as possible.

Site Planning and Preventive Vehicle Maintenance

- **Designate one area** of the construction site, well away from streams or storm drain inlets, for auto and equipment parking, refueling, and routine vehicle and equipment maintenance. Contain the area with berms, sand bags, or other barriers.
- **Maintain all vehicles** and heavy equipment. Inspect frequently for and repair leaks.
- **Perform** major **maintenance**, repair jobs, and vehicle and equipment washing **off-site,** where cleanup is easier.
- If you must drain and replace motor oil, radiator coolant, or other fluids on site, **use drip pans or drop cloths to catch drips and spills.** Collect all spent fluids, store in separate containers, and properly dispose as hazardous waste (recycle whenever possible).
- **Do not use diesel oil to lubricate** equipment parts, or clean equipment. Use only water for any onsite cleaning.
- **Cover exposed fifth wheel hitches** and other oily or greasy equipment during rain events.

Spill Cleanup

- **Clean up spills immediately.**
- **Never hose down** "dirty" pavement or impermeable surfaces where fluids have spilled. **Use dry cleanup methods** (absorbent materials, cat litter, and/or rags) whenever possible and properly dispose of absorbent materials.
- **Sweep up** spilled dry materials immediately. Never attempt to "wash them away" with water, or bury them.
- **Use as little water as possible** for dust control. Ensure water used doesn't leave silt or discharge to storm drains.
- **Clean up spills on dirt areas** by digging up and properly disposing of contaminated soil.
- **Call 911 for significant spills.**
- If the spill poses a **significant hazard** to human health and safety, property or the environment, you must also **report** it to the State Office of Emergency Services.

The property owner and the contractor share ultimate responsibility for the activities that occur on a construction site. You may be held responsible for any environmental damage caused by your subcontractors or employees.

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.

Painting and Application of Solvents and Adhesives

Storm Drain Pollution from Paints, Solvents, and Adhesives

All paints, solvents, and adhesives contain chemicals that are harmful to wildlife in local creeks, San Francisco Bay, and the Pacific Ocean. Toxic chemicals may come from liquid or solid products or from cleaning residues or rags. Paint material and wastes, adhesives 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, French drain, or creek.**
- For **water-based paints**, paint out brushes to the extent possible, and rinse into an inside sink drain that goes to the sanitary sewer.
- For **oil-based paints**, paint out brushes to the extent possible and clean with thinner or solvent. Filter and reuse thinners and solvents, where possible. Dispose of excess liquids and residue as hazardous waste.
- When thoroughly dry, empty paint cans, used brushes, rags, and drop cloths may be **disposed of as garbage**.

Paint Removal

- **Paint chips and dust from non-hazardous dry stripping and sand blasting** may be swept up or collected in plastic drop cloths and disposed of as trash.
- **Chemical paint stripping residue,** and chips and dust from **marine paints,** or **paints containing lead, mercury or tributyl tin** must be disposed of as hazardous wastes. Lead based paint removal requires a state-certified contractor.
- When stripping or cleaning **building exteriors** with high-pressure water, block storm drains. **Direct washwater onto a dirt area** and spade into soil. Or, check with Cupertino Sanitary District to find out if you can mop or vacuum the washwater and **dispose of it in a sanitary sewer drain**. Sampling of the washwater may be required.
- **Washwater from painted buildings constructed before 1978** can contain high amounts of **Lead,** even if paint chips are not present. Before you begin stripping paint or cleaning pre-1978 building exteriors with water under high pressure, test paint for lead by taking paint scrapings to a local laboratory. (See Yellow Pages for a state-certified laboratory.)
- If there is **loose paint** on the building, or if the **paint tests positive for lead**, block storm drains. Check with Cupertino Sanitary District to determine whether you may discharge water to the sanitary sewer, or if you must send it offsite for disposal as hazardous waste.

Paint Disposal, Return or Donation

- **Dispose of** unwanted liquid paint, thinners, solvents, glues, and cleaning fluids **as hazardous waste** (call the Small Business Hazardous Waste Prgm: 299-7300).
- Or **Return** to supplier. (Unopened cans of paint may be able to be returned. Check with the vendor regarding it's "buy-back" policy.)
- **Donate** excess paint (call 299-7300 to donate.)

Roadwork and Paving

Storm Drain Pollution from Roadwork

Road paving, surfacing, and pavement removal happen right in the street, where there are numerous opportunities for asphalt, saw-cut slurry, or excavated material to illegally enter storm drains. Extra planning is required to store and dispose of materials properly and guard against pollution of storm drains, creeks, and the Bay.

General Business Practices

- Develop and implement **erosion/sediment control plans** for roadway embankments.
- Schedule excavation and grading work during **dry weather.**
- Check for and **repair leaking equipment.**
- Perform **major equipment repairs** at designated areas in your maintenance yard, where cleanup is easier. Avoid performing equipment repairs at construction sites.
- When **refueling** or when vehicle/equipment maintenance must be done on site, designate a location away from storm drains and creeks.
- **Do not use diesel oil to lubricate** equipment parts or clean equipment.
- **Recycle** used oil, concrete, broken asphalt, etc. whenever possible, or dispose of properly. (www.recyclestuff.com for list of recycling companies.)

Asphalt/Concrete Removal

- Avoid creating excess **dust** when breaking asphalt or concrete.
- After breaking up old pavement, be sure to **remove all chunks and pieces.** Make sure broken pavement does not come in contact with rainfall or runoff.
- When making **saw cuts**, use as little water as possible. Shovel or vacuum saw-cut slurry and remove from the site. Cover or protect storm drain inlets during saw-cutting. Sweep up, and properly dispose of, all residues.
- Sweep, **never hose down streets** to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquor in storm drains.

During Construction

- **Avoid paving and seal coating in wet weather,** or when rain is forecast, to prevent fresh materials from contacting stormwater runoff.
- **Cover and seal catch basins and manholes** when applying seal coat, slurry seal, fog seal, or similar materials.
- **Protect drainage ways** by using earth dikes, sand bags, or other controls to divert or trap and filter runoff.
- Never wash excess material from **exposed-aggregate concrete** or similar treatments into a street or storm drain. Collect and recycle, or dispose to dirt area.
- **Cover stockpiles** (asphalt, sand, etc.) and other construction materials with plastic tarps. Protect from rainfall and prevent runoff with temporary roofs or plastic sheets and berms.
- Park **paving machines** over drip pans or absorbent material (cloth, rags, etc.) to catch drips when not in use.
- **Clean up all spills and leaks** using "dry" methods (with absorbent materials and/or rags), or dig up, remove, and properly dispose of contaminated soil.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand. ???
- Avoid over-application by **water trucks** for dust control.

Fresh Concrete and Mortar Application

Storm Drain Pollution from Fresh Concrete and Mortar Applications

Fresh concrete and cement-related mortars that wash into lakes, streams, or estuaries are toxic to fish and the aquatic environment. Disposing of these materials to the storm drains or creeks can block storm drains, causes serious problems, and is prohibited by law.

General Business Practices

- Wash out concrete mixers only in designated **washout areas** in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse.
- **Wash out chutes** onto dirt areas that do not flow to streets or drains.
- **Always store both dry and wet materials under cover,** protected from rainfall and runoff and away from storm drains or waterways. Protect dry materials from wind.
- **Secure bags of cement** after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- **Do not use diesel fuel as a lubricant** on concrete forms, tools, or trailers.

During Construction

- **Don't mix up more** fresh concrete or cement than you will use in a two-hour period.
- Set up and **operate small mixers on tarps** or heavy plastic drop cloths.
- When cleaning up after driveway or sidewalk construction, **wash fines onto dirt areas,** not down the driveway or into the street or storm drain.
- **Protect** applications of fresh concrete and mortar **from rainfall** and runoff until the material has dried.
- Wash down **exposed aggregate concrete** only when the washwater can (1) flow onto a dirt area, (2) drain onto a bermed surface from which it can be pumped and disposed of properly, or (3) be vacuumed from a catchment created by blocking a storm drain inlet. 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 the pieces and **dispose of properly.** Recycle large chunks of broken concrete. See www.reducewaste.org for info on recyclers.
- **Never bury** waste material. Dispose of small amounts of excess dry concrete, grout, and mortar in the trash.
- **Never dispose of washout** into the street, storm drains, drainage ditches, or streams.

Small Business Hazardous Waste Disposal Prgm
Businesses that generate less than 27 gallons or 220 pounds of hazardous waste per month are eligible to use this program.
Call 408-299-7300 for a quote.

CITY OF CUPERTINO

Santa Clara Valley *Urban Runoff* Pollution Prevention Program

UPDATED SEPTEMBER 2016

APPROVED BY:
TIMM BORDEN, RCE 45512
DIRECTOR OF PUBLIC WORKS
9/1/16
DATE

CONSTRUCTION BEST MANAGEMENT PRACTICES

CITY OF CUPERTINO
DEPARTMENT OF PUBLIC WORKS

SHEET: 14
OF 14 SHEETS
FILE: