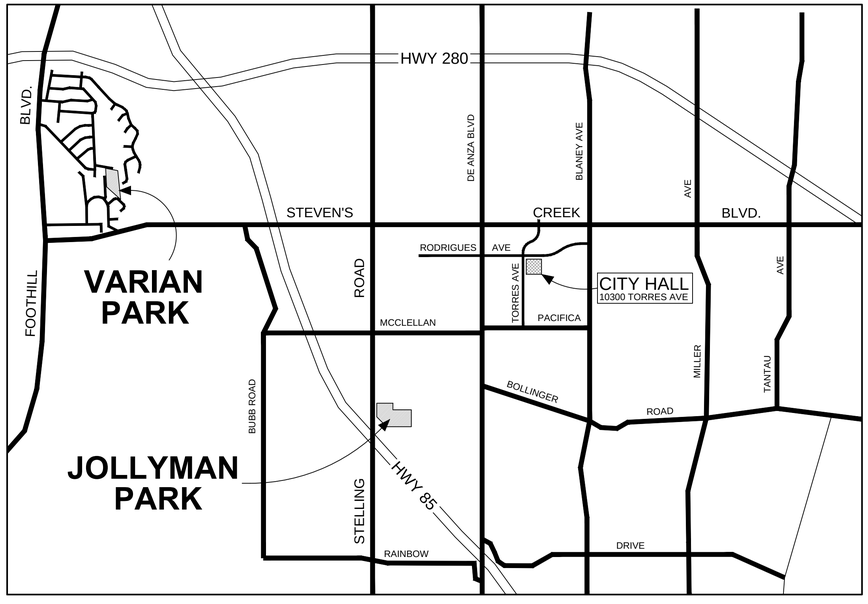
CITY OF CUPERTINO
JOLLYMAN PARK & VARIAN PARK SITE IMPROVEMENTS

PROJECT NO. 2016-03.01

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SITE FACILITIES (WHICH MAY OR MAY NOT BE SHOWN ON PLAN) THAT ARE NOT IDENTIFIED FOR REMOVAL. THIS INCLUDES BUT IS NOT LIMITED TO: PLAY STRUCTURES, SIGNS, BARBECUE PITS, PICNIC TABLES, DRAIN PIPES, FENCES, SHRUBS, GROUNDCOVER PLANTS, TREES & LAWN TURF. FACILITIES NOT IN SCOPE OF WORK WHICH ARE DISTURBED, REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR RESTORED TO THE EXISTING CONDITION AT THE CONTRACTORS EXPENSE.
2. ALL AREAS OF NEW & EXISTING CONCRETE SIDEWALK, CURB &/OR GUTTER WHICH ARE CHIPPED, BROKEN OR DAMAGED DURING CONSTRUCTION SHALL NOT BE ACCEPTED & SHALL BE REMOVED & REPLACED BY THE CONTRACTOR AT HIS EXPENSE. CONCRETE REPAIRS SHALL EXTEND TO THE NEAREST AVAILABLE JOINT.
3. CONTRACTOR SHALL PREVENT VEHICLES & HEAVY EQUIPMENT FROM ENTERING AREA BENEATH EXISTING TREE CANOPY. ALL EXCAVATION WITHIN 10' OF TREE TRUNKS TO BE PERFORMED BY HAND DIGGING ONLY UNLESS OTHERWISE DIRECTED BY CITY REPRESENTATIVE. TREE PROTECTION FENCING SHALL BE INSTALLED PER CITY STANDARD DETAIL 6-4 (SEE SHEET NO. 3).
4. CONTRACTOR SHALL TAKE CARE TO AVOID CUTTING THROUGH TREE ROOTS LARGER THAN 2" IN DIAMETER WITHOUT PRIOR APPROVAL OF PROJECT ARBORIST. IF ANY TREE ROOTS 2" OR LARGER IN DIAMETER ARE FOUND WITHIN LIMITS OF WORK & DETERMINED TO CONFLICT WITH PLAN, CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE FOR DIRECTION PRIOR TO PROCEEDING WITH THE WORK.
5. TREES, ROOTS, AND FOREIGN MATTER IN EXISTING OR PROPOSED RIGHT-OF-WAY SHALL BE REMOVED TO A DEPTH OF TWO (2) FEET BELOW SUBGRADE AND DISPOSED OF PER CALTRANS STANDARDS. IN THE CASE OF LIVE TREE ROOTS FROM CITY STREET TREES, CONTRACTOR SHALL CONTACT THE CITY REPRESENTATIVE IN COORDINATION W/THE PROJECT ARBORIST PRIOR TO CONTINUATION OF THE WORK FOR FIELD OBSERVATION PRIOR TO REMOVING TREE ROOTS.
6. CONTRACTOR SHALL INSTALL TEMPORARY EROSION & SEDIMENT CONTROL FACILITIES AT ALL OPEN DRAIN INLETS, CURB INLETS & DRAINAGE FACILITIES WITHIN OR IMMEDIATELY ADJACENT TO ZONE OF CONSTRUCTION TO PREVENT STORMWATER POLLUTION. POLLUTION PREVENTION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT & SHALL BE REMOVED WITHIN 7 DAYS OF FINAL ACCEPTANCE OF THE WORK.
7. CONTRACTOR SHALL CLEAN ALL LOOSE ROCK, DEBRIS, VEGETATION & DELETERIOUS MATERIAL FROM ROADWAY, PARKING LOT SURFACE & SIDEWALKS AT THE END OF EACH WORKING DAY.
8. ANY UTILITY BOXES LOCATED WITHIN CONSTRUCTION AREAS SHALL BE ADJUSTED TO FINISHED GRADE. IF BOXES ARE NOT REUSABLE, CONTRACTOR SHALL INSTALL NEW BOXES TO MATCH EXISTING.
9. ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (2010 EDITION, AS AMENDED), AND STANDARD PLANS (2010 EDITION, AS AMENDED), AND CITY OF CUPERTINO STANDARD DETAILS. THE CONTRACTOR SHALL PERFORM THE WORK DESCRIBED IN THE SPECIFICATION, AND AS SHOWN ON THE DRAWINGS, AND TO THE SATISFACTION OF THE CITY ENGINEER.
10. APPROVAL OF THESE PLANS SHALL NOT RELEASE THE OWNER OR CONTRACTOR OF THE RESPONSIBILITY FOR CORRECTIONS OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION OF IMPROVEMENTS, PUBLIC INTEREST REQUIRES A MODIFICATION OF/OR A DEPARTURE FROM THE CITY OF CUPERTINO STANDARD DETAILS OR THESE IMPROVEMENTS PLANS, THE CITY ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE COMPLETED, AT THE SOLE EXPENSE OF THE OWNER OR CONTRACTOR.
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE APPROVED PLANS OR THE LATEST REVISED PLANS ARE FURNISHED TO ITS SUBCONTRACTORS, AND TO ENSURE THE LATEST APPROVED PLANS ARE ONSITE AT ALL TIMES DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL NOTIFY THE CITY OF CUPERTINO PUBLIC WORKS INSPECTOR TWO (2) WORKING DAYS PRIOR TO REQUIRING AN INSPECTION. CALL (408) 777-3104 TO SCHEDULE PUBLIC WORKS INSPECTIONS.
13. CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO BEGINNING OF WORK.
14. THE CONTRACTOR SHALL LOCATE UNDERGROUND FACILITIES IN THE AREA OF WORK. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK FOR LOCATION OF THE UNDERGROUND FACILITIES.
15. ALL TRENCH BACKFILL, FILL AREAS, AND BASE MATERIAL UNDER HOT MIX ASPHALT SURFACES SHALL ATTAIN A MINIMUM 95% RELATIVE COMPACTION. BASE MATERIAL UNDERNEATH CONCRETE FACILITIES INCLUDING SIDEWALKS, CURB & GUTTER, CURB RAMPS, ETC. SHALL ATTAIN A MINIMUM 90% RELATIVE COMPACTION.
16. FIVE (5) WORKING DAYS PRIOR TO INSTALLING PERMANENT STRIPING, THE CONTRACTOR SHALL COORDINATE A MEETING AT THE SITE WITH THE CITY TRAFFIC ENGINEER TO VERIFY PLACEMENT OF ALL PAINTED LEGENDS & ROADWAY STRIPING. THE CITY ENGINEER SHALL HAVE THE RIGHT TO MAKE CHANGES IN THE LOCATION OF THE ALIGNMENT OF TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS.
17. CONCRETE FOR USE IN ALL CONCRETE STRUCTURES SHALL CONFORM TO CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 90. DROP INLETS, SIDEWALKS, CURBS AND GUTTERS SHALL CONTAIN 590 LBS. OF CEMENT PER CUBIC YARD AND SHALL ATTAIN A MINIMUM STRENGTH OF 3,000 PSI IN 28 DAYS.
18. ONE POUND OF DISPERSING BLACK SHALL BE MIXED WITH EACH CUBIC YARD OF CONCRETE AT THE BATCH PLANT.
19. CONSTRUCTION SURVEY STAKES OR MARKS (CONTROL STAKES) TO ESTABLISH LINES AND GRADES SHALL BE SET BY THE CONTRACTOR'S SURVEYOR OR ENGINEER.
20. NOTIFY THE CITY INSPECTOR TWO (2) WORKING DAYS IN ADVANCE OF REQUIRING SERVICES FOR CHECKING FIELD STAKING. TLU·EE (3) COPIES OF THE CUT SHEETS SHALL BE FURNISHED TO THE CITY INSPECTOR.



LOCATION MAP: CITY OF CUPERTINO
NOT TO SCALE

NORTH

TABLE OF CONTENTS

CONTACT INFORMATION

CITY OF CUPERTINO PUBLIC WORKS DEPT.
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AlexA@cupertino.org

PAVEMENT ENGINEERING INC.
ATTN: MIKE WASDEN, PROJECT MANAGER
(707) 695-5327 (CELL)
3820 CYPRESS DRIVE, SUITE 3
PETALUMA, CA 94954
mikew@pavementengineering.com

REVIEWED BY:

ALEX ACENAS
PUBLIC WORKS PROJECT MANAGER

APPROVED BY:

TIMM BORDEN, RLE #45512
DIRECTOR OF PUBLIC WORKS

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CUPERTINO

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805-781-2265

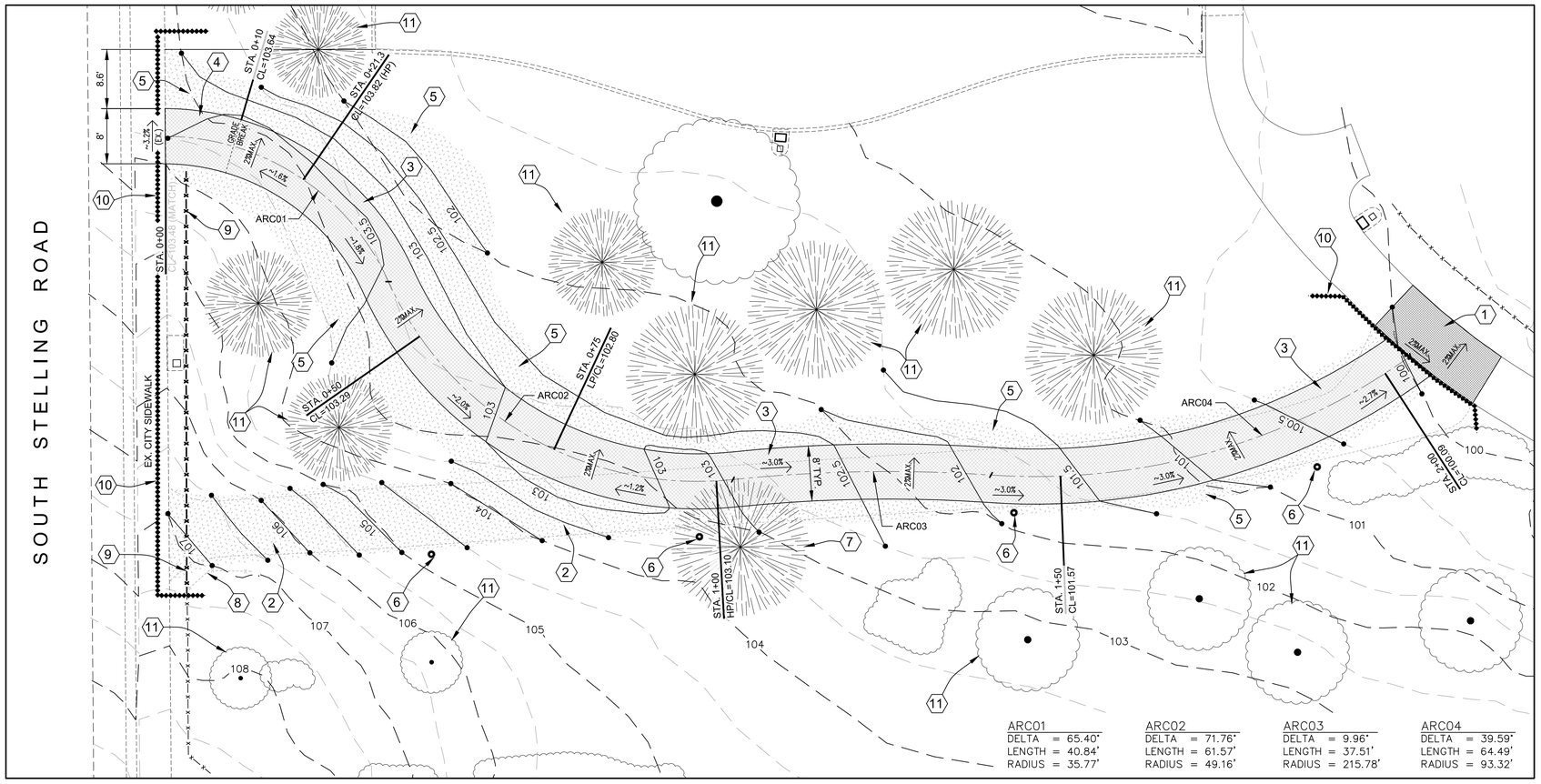
CITY OF CUPERTINO
CUPERTINO, CA
10300 TORRE AVENUE

JOLLYMAN PARK & VARIAN PARK
TITLE SHEET

REGISTERED PROFESSIONAL ENGINEER
PAUL R. CURREN
C34527
Exp. 09-30-19
CIVIL
STATE OF CALIFORNIA

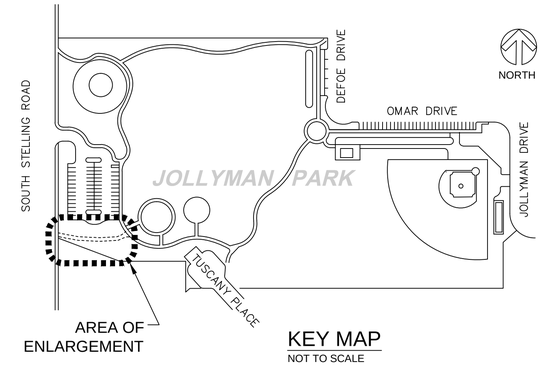
DRAWN BY:	MPW
PROJECT NUMBER:	170064
SCALE:	AS SHOWN
DATE:	JUNE 2016
SHEET NUMBER:	1 OF 6

Path: W:\SHARED\R DRIVE\ACTIVE PROJECTS\CUPERTINO, CITY OF\170064\TASK 01\DRAWINGS\170064_TITLE+DETAILS.DWG Plot Date: 9/27/2017 10:40 AM



SITE PLAN
1"= 10'

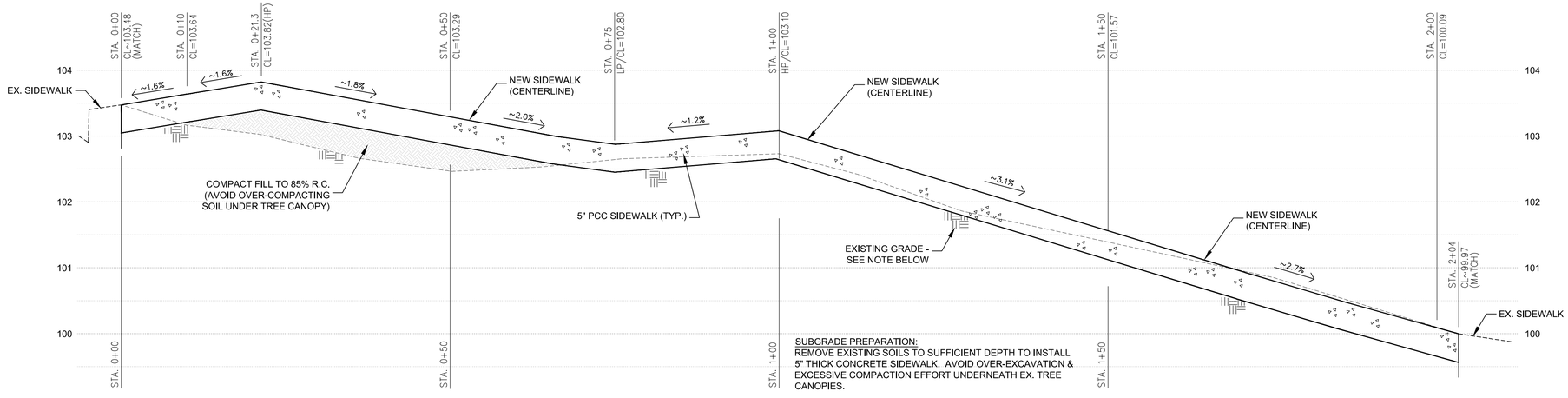
ARC01	ARC02	ARC03	ARC04
DELTA = 65.40°	DELTA = 71.76°	DELTA = 9.96°	DELTA = 39.59°
LENGTH = 40.84'	LENGTH = 61.57'	LENGTH = 37.51'	LENGTH = 64.49'
RADIUS = 35.77'	RADIUS = 49.16'	RADIUS = 215.78'	RADIUS = 93.32'



KEY MAP
NOT TO SCALE

NOTES:

1. SAWCUT, REMOVE & REPLACE PCC SIDEWALK TO NEAREST SCORE JOINT. MATCH EX. COLOR & TEXTURE AS CLOSELY AS POSSIBLE. NEW SIDEWALK CROSS-SLOPE NOT TO EXCEED 2%. (1/6)
2. REMOVE D.G. PATHWAY, UNDERLYING AGG. BASE & WOOD HEADERBOARD (EXISTING PATHWAY SECTION CONSISTS OF 1.5" DG OVER 3"± AGG. BASE). BACKFILL & REGRADE TO PROVIDE SMOOTH TRANSITION TO EXISTING GRADE ON EITHER SIDE OF PATHWAY. SALVAGE & REUSE D.G., AGG. BASE & NATIVE SOIL FOR BACKFILL & GRADING FIRST & USE IMPORTED FILL ONLY IF NEEDED. SALVAGED D.G. & AGG. BASE TO BE USED FOR FILL UNDER NEW SIDEWALK ONLY, & NOT FOR TRANSITIONAL SLOPES IN SOIL AREAS BEYOND THE EXTENT OF THE NEW SIDEWALK.
3. CONSTRUCT 5" REINFORCED PCC SIDEWALK. MATCH COLOR & TEXTURE OF EXISTING CONCRETE SIDEWALK IN JOLLYMAN PARK AS CLOSELY AS POSSIBLE. NEW SIDEWALK CROSS-SLOPE NOT TO EXCEED 2%. (1/6)
4. WARP NEW SIDEWALK SURFACE OVER FINAL 10' TO CONFORM TO SLOPE OF EXISTING CITY SIDEWALK ALONG SOUTH STELLING ROAD. CROSS-SLOPE IN WARP AREA WILL VARY BETWEEN 3.2% @ BACK OF SIDEWALK TO 2% MAX.
5. REGRADE AGAINST NEW CONCRETE SIDEWALK SUCH THAT FINISH GRADE IS 1" MIN., 2" MAX. BELOW TOP OF ADJACENT SIDEWALK. LIGHTLY TAMP FILL SOILS TO MINIMIZE FUTURE SETTLEMENT; 15% MAX. SLOPE IN FILL AREAS. PLACE 3" MIN. LAYER OF RECYCLED BARK MULCH OVER ALL NEWLY GRADED SURFACES (MATCH EX. MULCH MATERIAL ON SITE).
6. PROTECT-IN-PLACE (OR REMOVE & REPLACE, IF DAMAGED) EXISTING IRRIGATION FACILITIES ALONGSIDE EXISTING PATHWAY. ALL REPLACED FACILITIES TO MATCH EXISTING.
7. PROTECT-IN-PLACE EXISTING PINE TREE NEXT TO PATHWAY. HAND-DIG ONLY UNDER TREE CANOPY; DO NOT CUT ROOTS LARGER THAN 2" DIAMETER WITHOUT PRIOR APPROVAL BY PROJECT ARBORIST. AVOID COMPACTING SOIL BENEATH TREE CANOPY.
8. REMOVE PORTION OF EXISTING WOOD FENCE. REMOVE CONCRETE PLUG @ EACH FENCE POST TO A MINIMUM OF 12" BELOW FINISH GRADE.
9. EXTEND WOOD FENCE @ BACK OF SIDEWALK; MATCH STYLE & APPEARANCE OF EXISTING FENCE. (9/6)
10. TEMPORARY CONSTRUCTION FENCING - INSTALL PRIOR TO ANY DEMOLITION OR REMOVAL WORK & REMOVE WITHIN THREE (3) DAYS AFTER RECEIVING PROJECT APPROVAL BY CITY OF CUPERTINO. INSTALL IN LANDSCAPE AREA @ BACK EDGE OF SIDEWALK ALONG STELLING ROAD (DO NOT BLOCK PUBLIC ACCESS ON CITY SIDEWALK). (1/3)
11. INSTALL MEASURES TO PROTECT EXISTING TREES (SEE CITY OF CUPERTINO STD. DETAIL).



CENTERLINE PROFILE
(H) 1"= 10' / (V) 1"= 1'

LEGEND

- REMOVE & REPLACE 4" PCC SIDEWALK (1/6)
- CONSTRUCT 5" REINFORCED PCC SIDEWALK (1/6)
- BACKFILL & REGRADE W/ TOPSOIL
- TEMPORARY CONSTRUCTION FENCING
- — ## — — EXISTING CONTOUR
- ## PROPOSED CONTOUR
- CL CENTERLINE (OF PROPOSED SIDEWALK)
- HP HIGH POINT
- LP LOW POINT
- # / # DETAIL NUMBER / SHEET NUMBER

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CITY OF CUPERTINO
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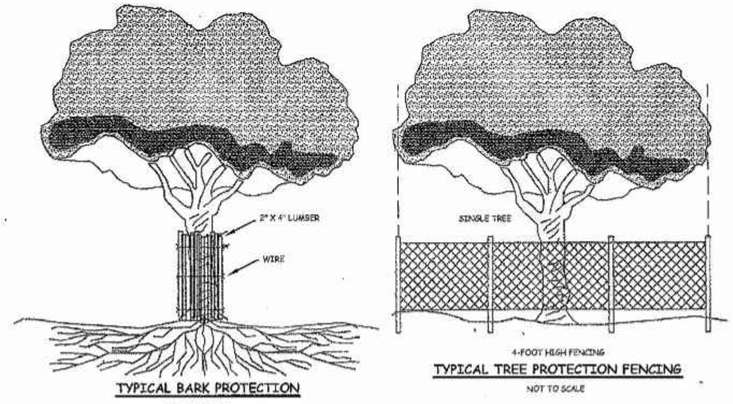
CUPERTINO, CA

JOLLYMAN PARK IMPROVEMENTS
SITE PLAN - NEW PATHWAY

REGISTERED PROFESSIONAL ENGINEER
PAUL R CURREN
C34527
Exp. 09-30-19
CIVIL
STATE OF CALIFORNIA

DRAWN BY:	MPW
PROJECT NUMBER:	170064
SCALE:	AS SHOWN
DATE:	MARCH 2017
SHEET NUMBER:	2 OF 6



TYPICAL BARK PROTECTION

NOT TO SCALE

TYPICAL TREE PROTECTION FENCING

NOT TO SCALE

1. Prior to any construction operations contractor shall construct and maintain, for each protected tree on a construction site, a protective fencing which encircles the outer limits of the critical root zone(CRZ) of the tree to protect it from construction activity. The CRZ is calculated 1.25 feet times the diameter of the trunk measured in inches 4.5 feet above the natural grade).

2. All protective fencing shall be in place prior to commencement of any site work and remain in place until all exterior construction activity at the site has been completed.

3. Protective fencing shall be at least six (6) feet high, clearly visible, and shall have a tree protection sign affixed to the fence every twenty (20) feet in such a manner to be clearly visible and legible to workers on the site at a distance of twenty-five (25) feet. The sign(s) shall read "Tree Protection Zone Keep out".

4. The owner sball cause the required fencing and signage to be installed and maintained for the duration of the construction.

5. In situations where a protected tree remains in the immediate area of intended construction and the tree may be in danger of being damaged by construction equipment or other activity, the contractor or subcontractor shall protect the tree with 2"x4" lumber encircled with wire or other means that do not damage the tree. The intent is to protect the trunk of the tree against incidental contact by large construction equipment.

6. Material Storage: No storage or placement of materials intended for use in construction or waste materials accumulated due to excavation or demolition shall be placed within the limits of the critical root zone of any protected tree.

7. Equipment Cleaning/Liquid Disposal: No equipment shall be cleaned or other liquids, including, without limitation, paint, oil, solvents, asphalt, concrete, mortar or similar materials deposited or allowed to flow into the critical root zone of a protected tree.

8. Tree Attachments: No signs, wires or other attachments, other than those of a protective nature, shall be attached to any protected tree.

9. Vehicular Traffic: No vehicular and/or construction equipment traffic or parking shall take place within the critical root zone of any protected tree other than on existing street pavement.

10. No heavy equipment, including but not limited to trucks, tractors, trailers, bulldozers, excavators, skid steer tractors, trenchers, compressors, and hoists, shall be allowed inside the drip-line of any protected tree on any construction site.

11. Grade Changes: No grade changes shall be allowed within the limits of the critical root zone of any protected tree unless adequate protective construction methods are approved in advance in writing by the city.

12. Impervious Paving: No paving with asphalt, concrete or other impervious materials shall be placed within the limits of the critical root zone of a protected tree, unless expressly permitted by the public works Dept

13. Root Pruning: All roots two inches or larger in diameter which are exposed as a result of trenching or other excavation shall be cut off square with a sharp medium tooth saw and covered with natural fiber burlap within two hours of initial exposure.

14. All public sidewalks shall remain open, free and clear for public access, unless closure is permitted by the Public Works Department.

TREE PROTECTION STANDARDS

REVISED 5/13

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ City Engineer DATE: 7/19/13	6-4

1 CITY OF CUPERTINO STD. DETAIL 6-4: TREE PROTECTION STANDARDS

NTS

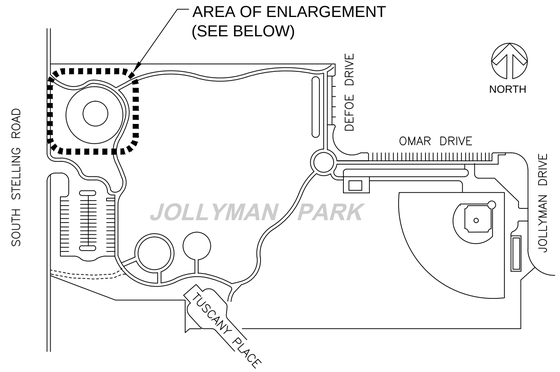
LEGEND

REMOVE CONCRETE FACILITIES

FIBAR SURFACE (SEE NOTE NO. 4)

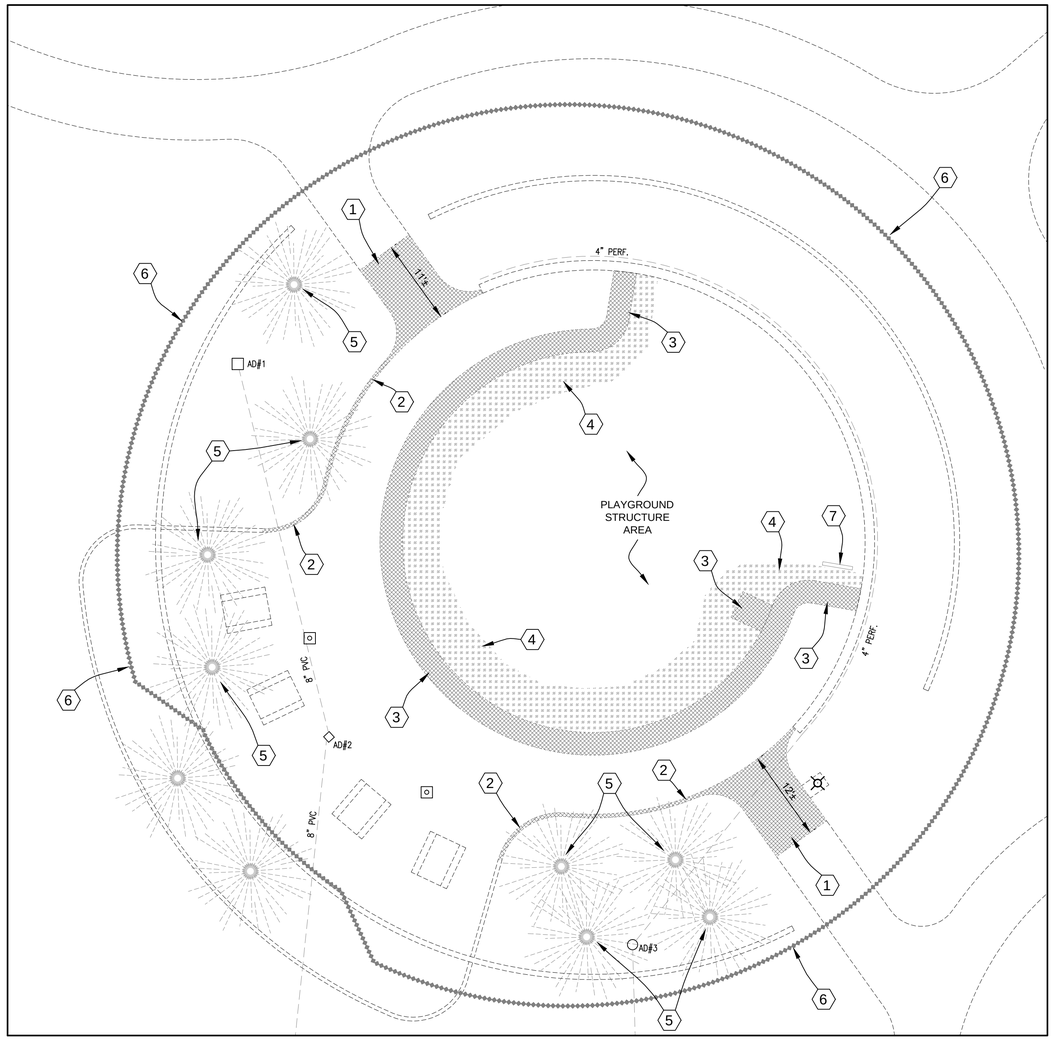
DEMOLITION PLAN NOTES:

1. SAWCUT @ NEAREST JOINT & REMOVE EXISTING SIDEWALK. MINIMIZE DISTURBANCE TO UNDERLYING BASE ROCK UNLESS NECESSARY.
2. SAWCUT & REMOVE CONCRETE MOW BAND.
3. REMOVE CONCRETE SIDEWALK & RAMP TO PLAYGROUND AREA. MINIMIZE DISTURBANCE TO UNDERLYING BASE ROCK UNLESS NECESSARY.
4. COLLECT FIBAR SURFACE MATERIAL IN PLAYGROUND AREA ADJACENT TO CONCRETE REPAIRS & STORE ON SITE FOR REUSE. PROTECT STOCKPILED MATERIAL FROM ACCIDENTAL DISPERSION & CONTAMINATION FROM CONSTRUCTION DEBRIS, SOIL, BASE ROCK, ETC.
5. PROTECT EXISTING TREES ADJACENT TO CONSTRUCTION AREA. AVOID DAMAGE TO TRUNKS & BRANCHES THAT OVERHANG INTO CONSTRUCTION AREA. DO NOT CUT OR TRIM ANY BRANCHES UNLESS FIRST AUTHORIZED TO DO SO, IN WRITING, BY THE CITY OF CUPERTINO. AVOID DAMAGE TO ROOTS DURING EXCAVATION WORK & DO NOT ALLOW HEAVY CONSTRUCTION VEHICLES BENEATH TREE CANOPY UNLESS NECESSARY TO DO SO. DO NOT CUT ANY TREE ROOTS LARGER THAN 2 INCHES IN DIAMETER UNLESS FIRST AUTHORIZED TO DO SO. CONTRACTOR SHALL RECEIVE WRITTEN DIRECTION FROM THE CITY REPRESENTATIVE IN COORDINATION W/THE PROJECT ARBORIST PRIOR TO CONTINUATION OF WORK. REFER TO CITY STANDARD DETAIL 6-4 "TREE PROTECTION STANDARDS" (ON THIS SHEET) & THE "TEMPORARY TREE/PLANT PROTECTION SPECIFICATION FOR MORE INFORMATION.
6. INSTALL & MAINTAIN TEMPORARY CONSTRUCTION FENCING AROUND PERIMETER OF WORK ZONE FOR THE DURATION OF WORK.
7. EXISTING SIGN (TO REMAIN).



KEY MAP

NOT TO SCALE



DEMOLITION PLAN

1"= 10'

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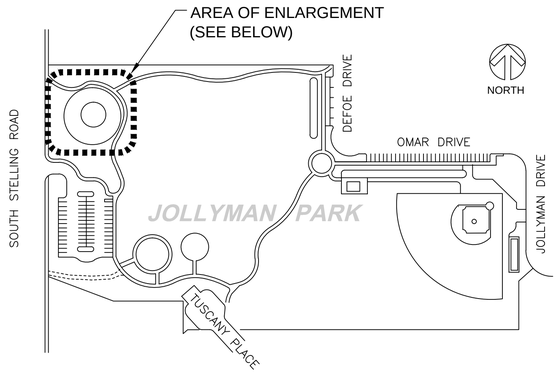
CUPERTINO, CA
10300 TORRE AVENUE

JOLLYMAN PARK IMPROVEMENTS
PLAYGROUND AREA - DEMOLITION PLAN

REGISTERED PROFESSIONAL ENGINEER
PAUL R. CURREN
C34527
Exp. 09-30-19
CIVIL
STATE OF CALIFORNIA

DRAWN BY:	MPW
PROJECT NUMBER:	170064
SCALE:	1"= 10'
DATE:	JUNE 2016
SHEET NUMBER:	3 OF 6



KEY MAP
NOT TO SCALE

LEGEND

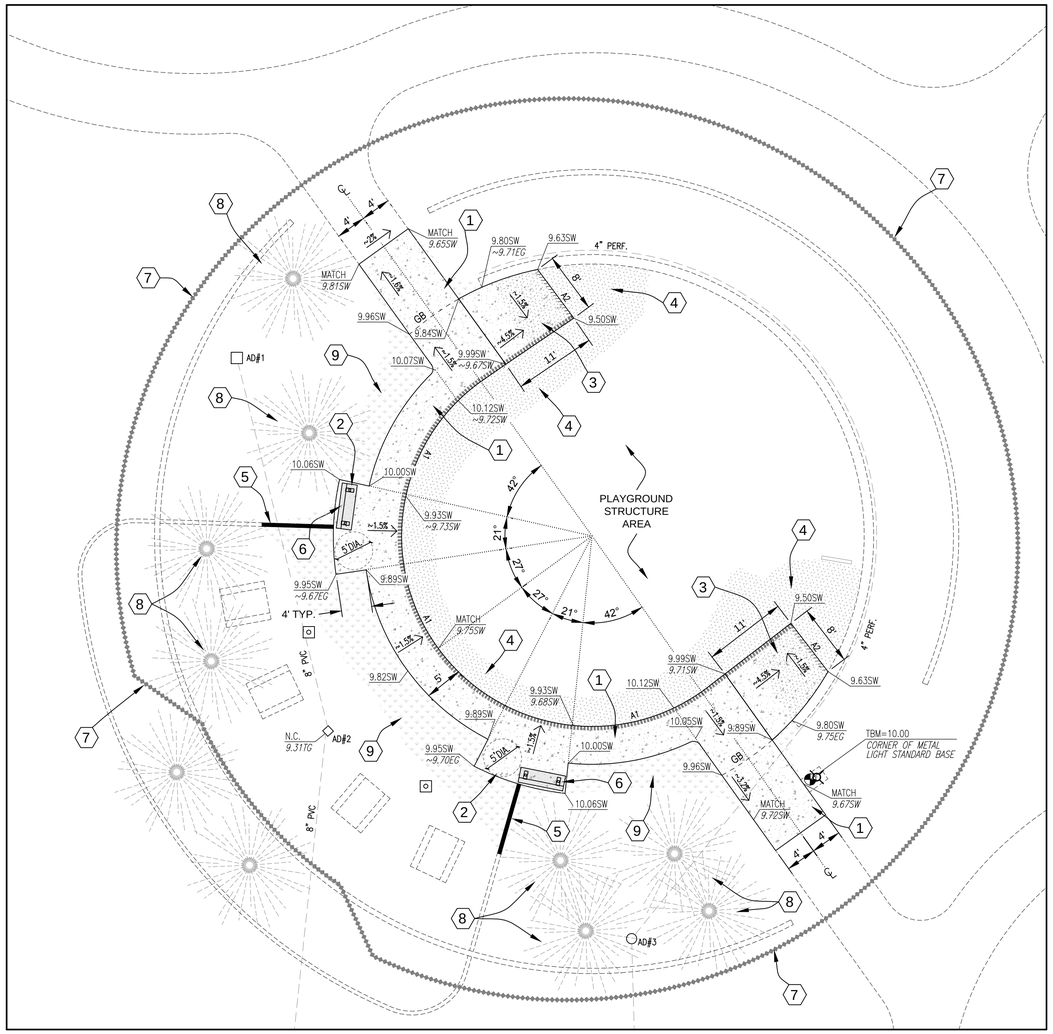
	PLACE (OR REPLACE) 8" MIN. FIBAR LAYER
	REMOVE & REPLACE/INSTALL 5" THICK PCC SIDEWALK (1/6)
	BACKFILL & REGRADE W/ TOPSOIL
A1	INTEGRAL CURB A1 (3/6)
A2	INTEGRAL CURB A2 (4/6)
	TEMPORARY CONSTRUCTION FENCING
	LIGHT STANDARD (EX.)
	TEMPORARY BENCHMARK SEE SITE PLAN FOR ELEVATION
N.C.	NO CHANGE
EG	EXISTING GRADE
PCC	PORTLAND CEMENT CONCRETE
SW	SIDEWALK
TG	TOP OF GRATE
TC	TOP OF CURB
XXX.XX / *XXX.XX*	DESIGN ELEVATION / *EXIST. ELEVATION*
# / #	DETAIL NUMBER / SHEET NUMBER

NOTES:

1. CONSTRUCT 5" THICK REINFORCED CONCRETE SIDEWALK OVER EXISTING NATIVE &/OR AGG. BASE; 2% MAX. CROSS-SLOPE ON SIDEWALK. (1/6)
2. PLACE 5" THICK REINFORCED CONCRETE SIDEWALK OVER EXISTING NATIVE SOIL FOR ADDITIONAL SEATING AREA; 2% MAX. SLOPE IN ANY/ALL DIRECTIONS. (1/6)
3. CONSTRUCT PCC SIDEWALK W/SLOPING SURFACE TO ACCESS PLAYGROUND AREA; 5% MAX. SLOPE (DESIGNED @ 4.5%±), 2% MAX. CROSS-SLOPE (DESIGNED @ 1.5%±). REPLACE EXCAVATED SOIL AROUND CONCRETE REPAIRS & PLACE 8" MIN. FIBAR CHIP AGAINST CONCRETE REPAIRS. FEATHER FIBAR CHIP MATERIAL OVER TOP OF CONCRETE SURFACE TO PROVIDE SMOOTH TRANSITION TO PLAYGROUND AREA. (1,4/6)
4. RESTORE FIBAR CHIP SURFACE AGAINST NEW CONCRETE FACILITIES - 8" MIN. THICKNESS OF FIBAR LAYER. USE STOCKPILED FIBAR CHIP FIRST, IMPORT & PLACE ADDITIONAL CHIP AS NECESSARY(MATCH. EXISTING). ANY VOIDS RESULTING FROM REMOVAL OF CONCRETE FACILITIES WHICH ARE NOT TO BE REPLACED MAY BE FILLED USING SALVAGED SOILS FROM ON SITE PRIOR TO PLACING 8" MIN. FIBAR CHIP LAYER. SURFACE OF FIBAR CHIP TO BE 1"± FROM TOP OF CONCRETE.
5. REPLACE CONCRETE MOW CURB. (6/6)
6. INSTALL BENCH IN CONCRETE SIDEWALK AREA (SEE BENCH NOTE BELOW).
7. TEMPORARY CONSTRUCTION FENCING - INSTALL PRIOR TO ANY DEMOLITION OR REMOVAL WORK & REMOVE WITHIN THREE (3) DAYS AFTER RECEIVING PROJECT APPROVAL BY CITY OF CUPERTINO.
8. INSTALL MEASURES TO PROTECT EXIST. TREES (SEE CITY OF CUPERTINO STD. DETAIL 6-4). (1/3)
9. BACKFILL W/SALVAGED SITE SOILS OR CLEAN, IMPORTED FILL AGAINST NEW CONCRETE FACILITIES. LIGHTLY COMPACT SOILS TO 85% R.C. SUCH THAT FINISH GRADE IS 1" MAX. BELOW TOP OF ADJACENT CONCRETE SURFACE. AVOID EXCESSIVE COMPACTION EFFORT UNDERNEATH DRIPLINE OF TREES.

BENCHES:

BENCHES TO BE 6' LENGTH, SURFACE-MOUNTED, METAL BASE (DARK GREEN) & RECYCLED PLASTIC SLATS W/WOODGRAIN TEXTURE & NO ARM RESTS. BENCH PRODUCTS: BENCH FACTORY "CHAMPION" BENCH (MODEL TBN-154); BELSON "MALIBU" BENCH (MODEL P-660X); PARK WAREHOUSE "RICHMOND" SERIES (NO MODEL # AVAILABLE); OR APPROVED EQUAL. INSTALL BENCHES PER MANUFACTURER'S DIRECTIONS.



SITE PLAN
1"= 10'
NORTH

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JOLLYMAN PARK IMPROVEMENTS
PLAYGROUND AREA - SITE PLAN

REGISTERED PROFESSIONAL ENGINEER
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Exp. 09-30-17
CIVIL
STATE OF CALIFORNIA

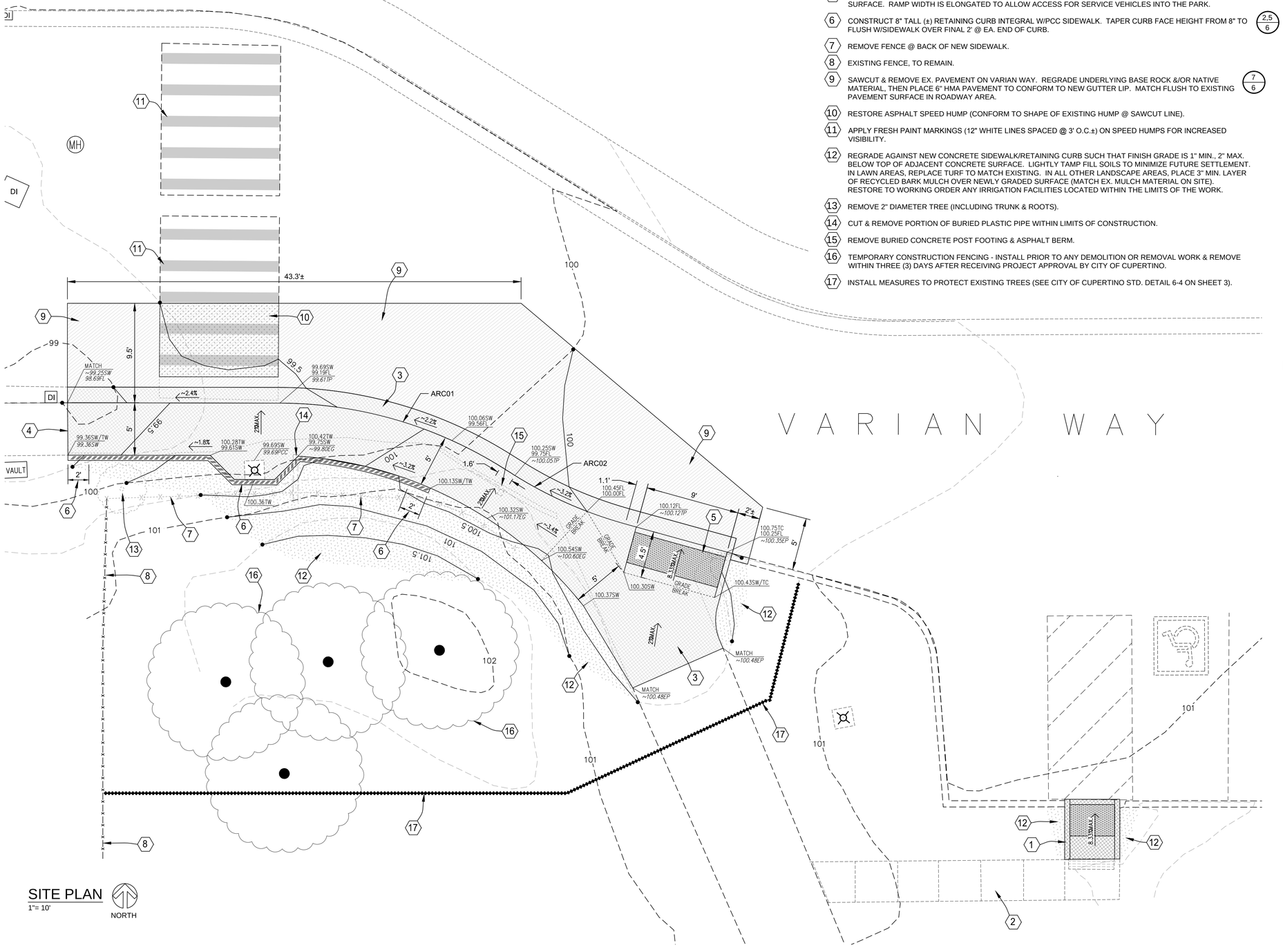
DRAWN BY:	MPW
PROJECT NUMBER:	170064
SCALE:	1"= 10'
DATE:	JUNE 2016
SHEET NUMBER:	4 OF 6

ARC01
DELTA = 31.90°
LENGTH = 22.27'
RADIUS = 40.00'

ARC02
DELTA = 16.56°
LENGTH = 11.56'
RADIUS = 40.00'

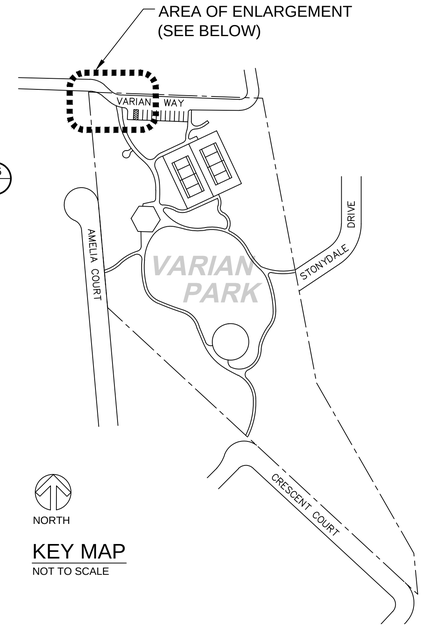
NOTES:

1. SAWCUT, REMOVE & REPLACE TYPE 'F' CURB RAMP PER CALTRANS RSP A88A W/8.33% MAX. RUNNING SLOPE. INSTALL TRUNCATED DOMES IN RAMP SURFACE.
2. EXISTING PCC SIDEWALK, TO REMAIN.
3. CONSTRUCT 4" PCC SIDEWALK, CURB & GUTTER PER CITY STANDARD NOS. 1-16 & 1-19. NEW SIDEWALK CROSS-SLOPE NOT TO EXCEED 2% PER DISABLED ACCESS REQ'S. (5/6)
4. MATCH FLUSH TO EXISTING EDGE OF SIDEWALK, CURB & GUTTER.
5. CONSTRUCT TYPE 'G' CURB RAMP PER CALTRANS RSP A88A W/TRUNCATED DOMES EMBEDDED INTO RAMP SURFACE. RAMP WIDTH IS ELONGATED TO ALLOW ACCESS FOR SERVICE VEHICLES INTO THE PARK.
6. CONSTRUCT 8" TALL (±) RETAINING CURB INTEGRAL W/PCC SIDEWALK. TAPER CURB FACE HEIGHT FROM 8" TO FLUSH W/SIDEWALK OVER FINAL 2' @ EA. END OF CURB. (2,5/6)
7. REMOVE FENCE @ BACK OF NEW SIDEWALK.
8. EXISTING FENCE, TO REMAIN.
9. SAWCUT & REMOVE EX. PAVEMENT ON VARIAN WAY. REGRADE UNDERLYING BASE ROCK &/OR NATIVE MATERIAL, THEN PLACE 6" HMA PAVEMENT TO CONFORM TO NEW GUTTER LIP. MATCH FLUSH TO EXISTING PAVEMENT SURFACE IN ROADWAY AREA. (7/6)
10. RESTORE ASPHALT SPEED HUMP (CONFORM TO SHAPE OF EXISTING HUMP @ SAWCUT LINE).
11. APPLY FRESH PAINT MARKINGS (12" WHITE LINES SPACED @ 3' O.C.±) ON SPEED HUMPS FOR INCREASED VISIBILITY.
12. REGRADE AGAINST NEW CONCRETE SIDEWALK/RETAINING CURB SUCH THAT FINISH GRADE IS 1" MIN., 2" MAX. BELOW TOP OF ADJACENT CONCRETE SURFACE. LIGHTLY TAMP FILL SOILS TO MINIMIZE FUTURE SETTLEMENT. IN LAWN AREAS, REPLACE TURF TO MATCH EXISTING. IN ALL OTHER LANDSCAPE AREAS, PLACE 3" MIN. LAYER OF RECYCLED BARK MULCH OVER NEWLY GRADED SURFACE (MATCH EX. MULCH MATERIAL ON SITE). RESTORE TO WORKING ORDER ANY IRRIGATION FACILITIES LOCATED WITHIN THE LIMITS OF THE WORK.
13. REMOVE 2" DIAMETER TREE (INCLUDING TRUNK & ROOTS).
14. CUT & REMOVE PORTION OF BURIED PLASTIC PIPE WITHIN LIMITS OF CONSTRUCTION.
15. REMOVE BURIED CONCRETE POST FOOTING & ASPHALT BERM.
16. TEMPORARY CONSTRUCTION FENCING - INSTALL PRIOR TO ANY DEMOLITION OR REMOVAL WORK & REMOVE WITHIN THREE (3) DAYS AFTER RECEIVING PROJECT APPROVAL BY CITY OF CUPERTINO.
17. INSTALL MEASURES TO PROTECT EXISTING TREES (SEE CITY OF CUPERTINO STD. DETAIL 6-4 ON SHEET 3).



SITE PLAN
1"= 10'

NORTH



KEY MAP
NOT TO SCALE

LEGEND

- REMOVE & REPLACE PCC CURB RAMP
- CONSTRUCT SIDEWALK, CURB & GUTTER (5/6)
- INSTALL DETECTABLE WARNING SURFACE (8/6)
- REMOVE & REPLACE 6" HMA (7/6)
- RESTORE HMA SPEED HUMP
- BACKFILL & REGRADE W/ TOPSOIL
- 8" TALL (MAX.) RETAINING CURB @ BACK OF SIDEWALK (2/6)
- TEMPORARY CONSTRUCTION FENCING
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EG EXISTING GRADE
- EP EDGE OF PAVEMENT
- FL FLOW LINE
- PCC CONCRETE (SURFACE)
- SW SIDEWALK
- TW TOP OF WALL
- XXX.XX / *XXX.XX* — DESIGN ELEVATION / *EXIST. ELEVATION*
- # / # — DETAIL NUMBER / SHEET NUMBER

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San Luis Obispo, CA 93401-6015
805-781-2265

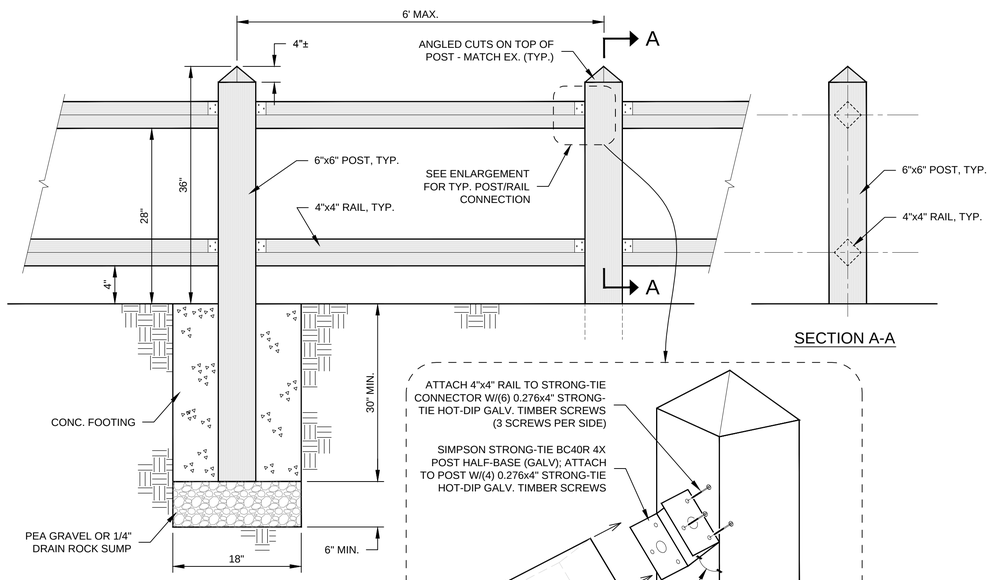
CITY OF CUPERTINO
10300 TORRE AVENUE
CUPERTINO, CA

VARIAN PARK IMPROVEMENTS
SITE PLAN

REGISTERED PROFESSIONAL ENGINEER
PAUL R. CURREN
C34527
Exp. 09-30-19
CIVIL
STATE OF CALIFORNIA

DRAWN BY:	MPW
PROJECT NUMBER:	170064
SCALE:	1"= 5'
DATE:	MARCH 2017
SHEET NUMBER:	5 OF 6

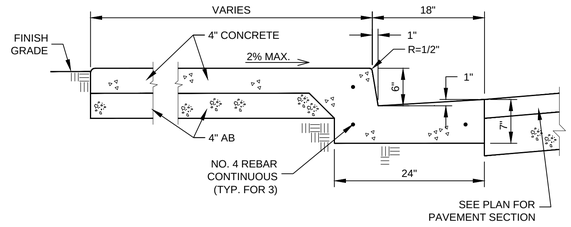
Path: W:\SHARED\R DRIVE\ACTIVE PROJECTS\CUPERTINO, CITY OF\170064\TASK 01\DRAWINGS\170064_SITE03_VARIAN.DWG Plot Date: 9/27/2017 10:39 AM



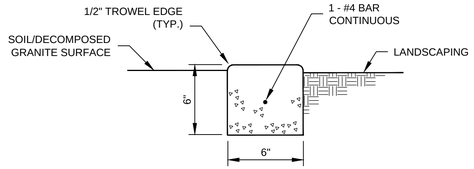
NOTE
ALL LUMBER FOR FENCE TO BE CON-HEART REDWOOD.

9 TYPICAL WOOD FENCE INSTALLATION (JOLLYMAN PARK)
NTS

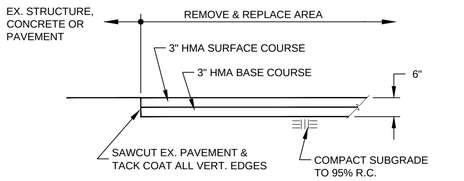
NOTES
CONTROL JOINTS SHALL BE @ 10' O.C. MAXIMUM.
SEE SPECIFICATIONS FOR REQUIREMENTS



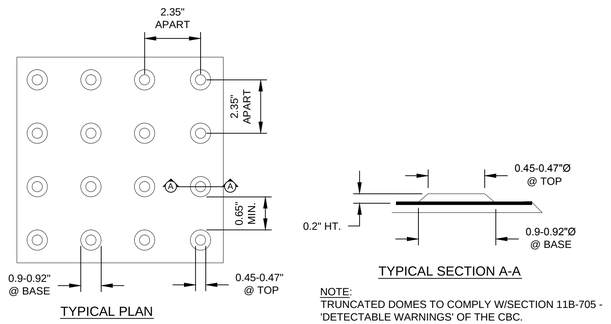
5 INTEGRAL SIDEWALK, CURB & GUTTER DETAIL
(VARIAN PARK)
NTS



6 PCC MOW STRIP DETAIL
NTS



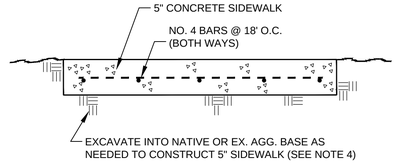
7 REMOVE & REPLACE 6" HMA
NTS



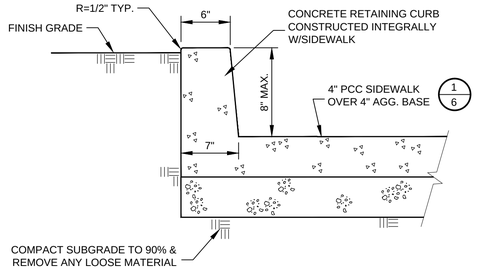
NOTE:
TRUNCATED DOMES TO COMPLY W/SECTION 11B-705 - 'DETECTABLE WARNINGS' OF THE CBC.

8 TRUNCATED DOMES
NTS

NOTES
1. CONTROL JOINTS @ 10' O.C. MAX.
2. 2% MAX. CROSS-SLOPE ON SIDEWALKS CONSTITUTING THE ACCESSIBLE PATH OF TRAVEL.
3. MATCH EXISTING COLOR/TEXTURE AS CLOSELY AS POSSIBLE WHERE REMOVING & REPLACING SIDEWALK, OR EXTENDING EXISTING SIDEWALK.
4. IN AREAS OF REMOVE & REPLACE, EXCAVATE & REMOVE BASE ROCK ONLY TO SUFFICIENT DEPTH TO PLACE NEW 5" SIDEWALK. DO NOT RECOMPACT REMAINING AGG. BASE OR NATIVE SURFACE WHEN PLACING SIDEWALK UNDER TREE CANOPY. IN OTHER AREAS BEYOND TREE CANOPY, RECOMPACT UNDERLYING BASE ROCK/NATIVE TO 90% R.C.

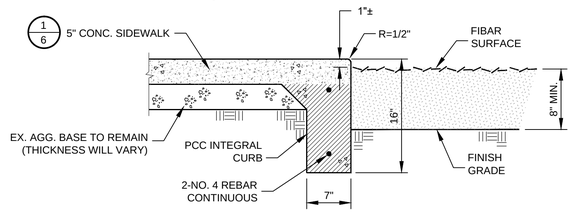


1 PCC SIDEWALK DETAIL
(JOLLYMAN PARK)
NTS



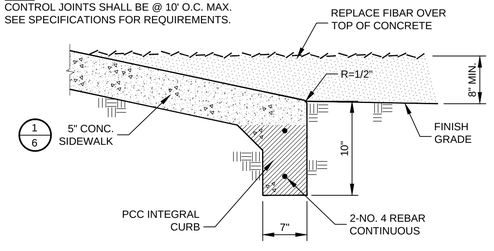
2 8" MAX. PCC RETAINING CURB W/SIDEWALK
NTS

NOTE
CONTROL JOINTS SHALL BE @ 10' O.C. MAX.
SEE SPECIFICATIONS FOR REQUIREMENTS.



3 TYPE A1: INTEGRAL SIDEWALK & CURB
NTS

NOTE
CONTROL JOINTS SHALL BE @ 10' O.C. MAX.
SEE SPECIFICATIONS FOR REQUIREMENTS.



4 TYPE A2: INTEGRAL SIDEWALK & CURB
NTS

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CITY OF CUPERTINO
10300 TORRE AVENUE
CUPERTINO, CA

JOLLYMAN PARK & VARIAN PARK
DETAILS

REGISTERED PROFESSIONAL ENGINEER
PAUL R CURREN
C34527
Exp. 09-30-18
CIVIL
STATE OF CALIFORNIA

DRAWN BY: MPW
PROJECT NUMBER: 170064
SCALE: AS SHOWN
DATE: JUNE 2016
SHEET NUMBER: 6 OF 6

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.

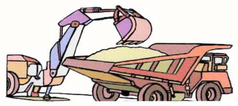
Earth-Moving Activities

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 clean up 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
DATE 9/1/16

CONSTRUCTION BEST MANAGEMENT PRACTICES

CITY OF CUPERTINO
DEPARTMENT OF PUBLIC WORKS

SHEET:
OF SHEETS
FILE: