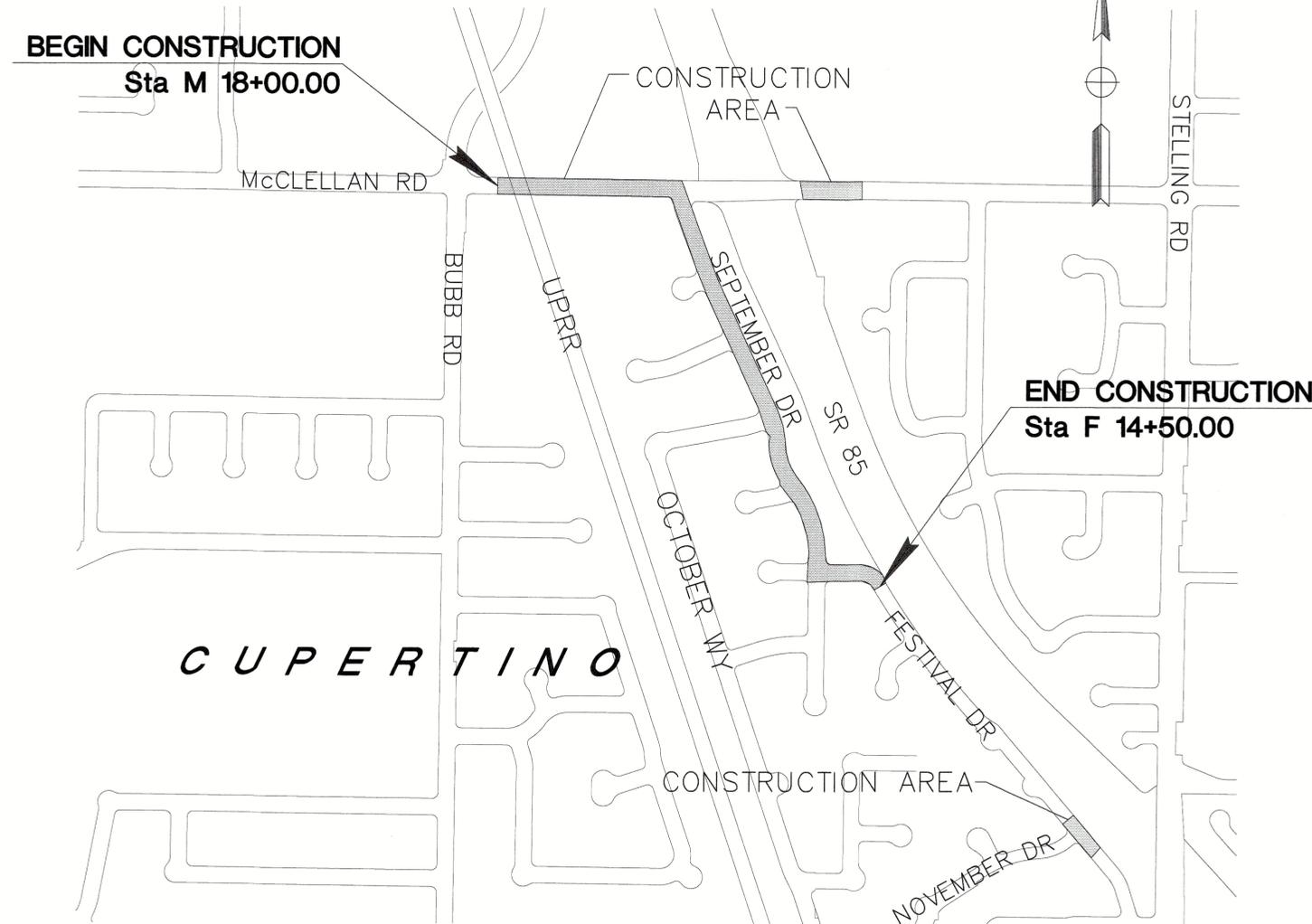


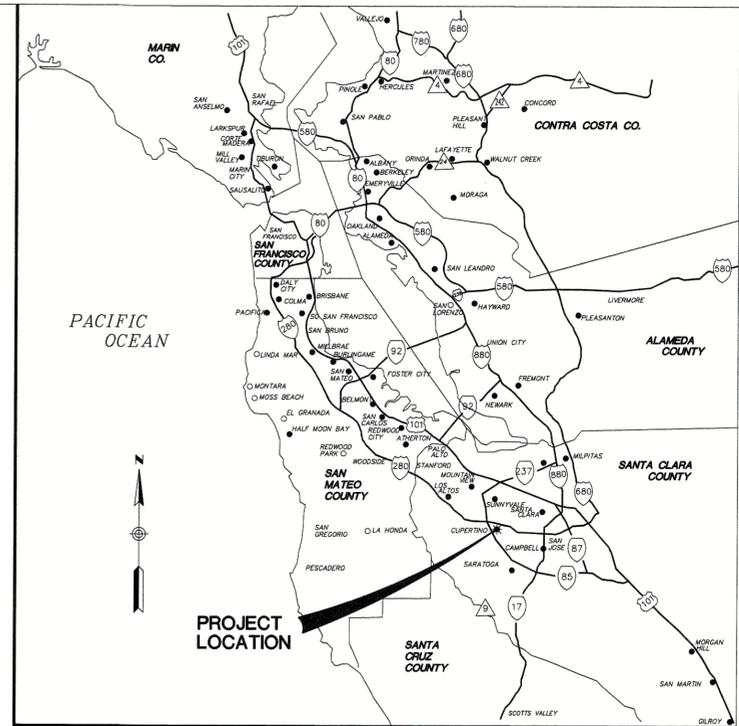
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**CITY OF CUPERTINO**  
**PUBLIC WORKS DEPARTMENT**  
**PROJECT PLANS FOR CONSTRUCTION OF**  
**BUBB, ELM, & McCLELLAN ROAD**  
**STORM DRAIN/SANITARY SEWER**  
**IMPROVEMENT PROJECT**  
**IN SANTA CLARA COUNTY**  
**PROJECT NO. CU 2015-12**



**VICINITY MAP**  
**NO SCALE**



**LOCATION MAP**

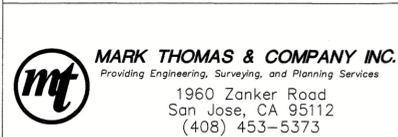
APPROVED BY:


3/31/15  
 \_\_\_\_\_ DATE  
 ROGER S. LEE  
 CITY OF CUPERTINO  
 ASSISTANT DIRECTOR OF PUBLIC WORKS


4/2/15  
 \_\_\_\_\_ DATE  
 CHAD MOSLEY, P.E.  
 CITY OF CUPERTINO  
 PUBLIC WORKS DEPARTMENT


3/30/15  
 \_\_\_\_\_ DATE  
 RICHARD K. TANAKA, P.E.  
 DISTRICT MANAGER-ENGINEER  
 CUPERTINO SANITARY DISTRICT

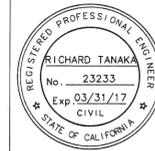
THE CONTRACTOR MUST POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."



DESIGNED BY :	BN				
DRAWN BY :	BN				
CHECKED BY :	FQ				
DATE :	03/30/15				
SCALE :	NO SCALE	No.	DESCRIPTION	DATE	BY
MTCO JOB No. :	CU-14116		REVISIONS		



City of Cupertino  
 Public Works Department  
 10300 TORRE AVENUE, CUPERTINO, CA 95014  
 (408) 777-3354 FAX (408) 777-3333



  
 REGISTERED CIVIL ENGINEER 03/30/15 DATE

**TITLE AND LOCATION MAP**  
**BUBB, ELM, & McCLELLAN ROAD STORM**  
**DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
**CITY OF CUPERTINO**

WORK ORDER No. \_\_\_\_\_ ADVERTISEMENT DATE: \_\_\_\_\_ CONTRACT No. \_\_\_\_\_

SHEET  
**1**  
 OF 17 SHEETS  
**T-1**



**GENERAL NOTES:**

- ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE FOLLOWING:
  - APPLICABLE SECTIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DETAILS, LATEST APPLICABLE EDITION, HEREIN REFERRED TO AS 'CALTRANS'.
  - CITY OF CUPERTINO STANDARD DETAILS.
  - THESE PLANS AND DETAILS, AND PROJECT SPECIFICATIONS.
  - STANDARDS OF THE UNITED STATES DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OFFICE OF STANDARDS AND RULES OF THE STATE DIVISION OF INDUSTRIAL SAFETY.
- 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.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE ALL PERMITS NECESSARY TO PERFORM WORK, INCLUDING BUT NOT LIMITED TO WORK IN THE PUBLIC RIGHT-OF-WAY, GRADING, TREE REMOVAL, AND UTILITY MODIFICATIONS.
- CONTRACTOR SHALL SUPPLY ALL EQUIPMENT, LABOR, AND MATERIALS NECESSARY TO PERFORM THE WORK SHOWN ON THE PLANS.
- IT SHALL BE THE RESPONSIBILITY OF THE VARIOUS CONTRACTORS TO COORDINATE THEIR WORK SO AS TO ELIMINATE CONFLICTS AND WORK TOWARD THE GENERAL GOOD AND COMPLETION OF THE ENTIRE PROJECT.
- ALL WORKMANSHIP AND MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE THE KIND AND QUALITY DESCRIBED IN THE SPECIFICATIONS AND SHALL BE FIRST CLASS THROUGHOUT. NEITHER FINAL ACCEPTANCE NOR FINAL PAYMENT BY THE CITY/DISTRICT SHALL RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR FAULTY MATERIALS OR WORKMANSHIP.
- IN THE EVENT OF ANY CONFLICT OF INFORMATION SHOWN ON THESE PLANS OR ANY CONFLICT BETWEEN THESE PLANS AND THE INTENT OF A CONSISTENT AND FUNCTIONAL PRODUCT, THE CONTRACTOR SHALL SO NOTIFY THE DISTRICT IN WRITING, UPON WHICH NOTICE THE DISTRICT SHALL RESOLVE THE CONFLICTS BY THE ISSUANCE OF A WRITTEN ORDER, REVISED PLANS OR BOTH. THE CONTRACTOR SHALL BEAR FULL COST AND RESPONSIBILITY FOR WORK AFFECTED BY SUCH CONFLICTS AND PERFORMED BY CONTRACTOR PRIOR TO SUCH NOTICE TO THE DISTRICT AND ISSUANCE OF SUCH ORDER AND/OR REVISED PLANS.
- CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AT ALL TIMES AS REQUIRED BY THE DISTRICT. NO VISIBLE AIRBORNE PARTICLES WILL BE ALLOWED AT ANY TIME DURING CONSTRUCTION.
- CONTRACTOR SHALL EXERCISE ALL NECESSARY CAUTION TO AVOID DAMAGE TO ANY EXISTING UTILITY LINES, FACILITIES, TREES, OR SURFACE IMPROVEMENTS, TO ANY EXISTING SIDEWALK, CURB, STRUCTURES ON ADJACENT PRIVATE PROPERTY, STORM CATCH BASIN, STORM DRAIN PIPE, TRAFFIC SIGNAL BOX, DRAINAGE STRUCTURE, WATER STRUCTURE, SEWER CLEANOUTS, MANHOLES, OR LINES AND FACILITIES FOR UNDERGROUND ELECTRIC, GAS, TELEPHONE, CABLE TV, STORM, SANITARY, WATER, OR OTHER UTILITIES WHICH ARE TO REMAIN IN PLACE AND SHALL BEAR FULL COST AND RESPONSIBILITY FOR ANY DAMAGE THERETO. CONTRACTOR SHALL IMMEDIATELY REPORT ANY DAMAGE TO THE EXISTING FACILITIES TO THE DISTRICT INSPECTOR AND APPROPRIATE MEASURES WILL BE TAKEN TO REPAIR OR REPLACE THE DAMAGED ITEM.
- ENGINEER SHALL BEAR NO RESPONSIBILITY FOR METHODS AND PROCEDURES OF WORK ESTABLISHED BY CONTRACTOR, JOB SITE CONDITIONS, JOB SAFETY OR CONFORMANCE WITH SAFETY PROCEDURES AND REQUIREMENTS.
- IN CONFORMANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS BOTH THE DISTRICT AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT.
- ACCESS FOR PEDESTRIANS AND VEHICLES SHALL BE PROVIDED AT ALL TIMES UNLESS APPROVED IN WRITING BY THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING / REPLACING DAMAGED CURB, SIDEWALK AND PAVEMENT RESULTING FROM CONSTRUCTION OPERATIONS TO CITY OF CUPERTINO STANDARDS.
- CONTRACTOR MAY BE REQUIRED TO OBTAIN A BUSINESS LICENSE FROM THE CITY OF CUPERTINO PRIOR TO START OF CONSTRUCTION AS REQUIRED.
- ANY EXISTING LANDSCAPE THAT IS REMOVED SHALL BE REPLACED IN KIND BY THE CONTRACTOR. THIS INCLUDES ITEMS SUCH AS PAVERS, PLANTS, SOD, FENCING, ETC.
- CONTRACTOR SHALL PERFORM WORK WITH THE LEAST AMOUNT OF DISRUPTION TO THE RESIDENTS.
- MANHOLE ENTRY PROHIBITED IS REQUIRED. COMPLY WITH CONFINED SPACE ENTRY REQUIREMENTS.
- HAZARD IDENTIFICATION - CONTRACTORS ARE HEREBY ADVISED THAT THEY MAY BE EXPOSED TO HAZARDOUS CONDITIONS WHEN INSTALLING OR MODIFYING SANITARY SEWER PIPELINES AND STRUCTURES. SOME OF THESE HAZARDS INCLUDE BUT ARE NOT LIMITED TO: EXPOSURE TO HAZARDOUS GASES COMMONLY FOUND IN SEWER SYSTEMS SUCH AS HYDROGEN SULFIDE, CARBON DIOXIDE, METHANE, OXYGEN DEFICIENT ENVIRONMENTS, AND OTHER FLAMMABLE OR EXPLOSIVE GASES; EXPOSURE TO SEWAGE WHICH MANY CONTAIN BACTERIOLOGICAL, CHEMICAL AND OTHER CONSTITUENTS HARMFUL TO HUMANS; AND EXPOSURE TO AREAS WHICH HAVE LIMITED OR RESTRICTED ACCESS AND EGRESS, WHICH MAY BE CONSIDERED PERMITTED CONFINED SPACES BY STATE AND FEDERAL OSHA REQUIREMENTS.
- NOTIFICATION OF INSPECTION - DISTRICT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO START OF ANY SEWER CONSTRUCTION AND A REQUEST MADE FOR INSPECTION (CALL 408-253-7863). THIS NOTIFICATION APPLIES NOT ONLY TO STARTING WORK, BUT ALSO TO RESTARTING WORK WHICH HAS BEEN TEMPORARILY HALTED.

**GENERAL NOTES:**

- ALL SEWER LATERALS SHALL BE INSTALLED AS SHOWN ON THE PLANS.
- INDEMNIFICATION - IN CONSIDERATION OF ISSUANCE OF THE PERMIT, THE CITY, OWNER OR CONTRACTOR SEEKING SUCH PERMIT HEREBY AGREES TO INDEMNIFY AND HOLD HARMLESS FROM CLAIMS, DEMANDS, LOSSES, COSTS INCLUDING ATTORNEY FEES, EXPENSES INCLUDING CONSULTANT'S FEES, OBLIGATIONS, LIABILITIES, DAMAGES AND JUDGEMENTS ARISING FROM ANY AND ALL BODILY INJURIES INCLUDING DEATH OF AN EMPLOYEE OF THE DEVELOPER, OWNER OR CONTRACTOR OR ANY OTHER PERSON AND ANY AND ALL DAMAGES TO PROPERTY INCLUDING LOSS OF USE THAT RESULTS IN ANY WAY FROM THE PERMIT ISSUED BY THE DISTRICT.
- CONNECTION TO EXISTING SEWERS - WHERE CONNECTION IS TO BE MADE TO AN EXISTING SEWER OR STRUCTURE, SAID EXISTING SEWER OR STRUCTURE SHALL BE UNCOVERED AND CHECKED FOR LOCATION AND ELEVATION PRIOR TO SUBMITTING CUT SHEETS. ANY DISCREPANCY BETWEEN THE PLANS AND FIELD INFORMATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- 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.
- CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO BEGINNING OF WORK
- NOTIFY CITY OF CUPERTINO TRAFFIC SIGNAL MAINTENANCE FOR INSPECTION OF TRAFFIC SIGNAL FACILITY FOUNDATION EXCAVATIONS AT (408) 777-1366, TWO (2) WORKING DAYS PRIOR TO POURING ANY CABINET OR SIGNAL FOUNDATIONS RELATING TO THE JOB.
- THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND FACILITIES IN THE AREA OF WORK. THE CONTRACTOR SHALL CONTACT BOTH UNDERGROUND SERVICE ALERT 811(800-227-2600) AND THE AFFECTED UTILITY COMPANIES PRIOR TO STARTING WORK TO REQUEST AND OBTAIN THE MARKING OF EXISTING UNDERGROUND UTILITIES.
- ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND BACKFILLED BEFORE PLACEMENT OF THE BASE MATERIAL AND SURFACE STRUCTURES. IF UTILITIES ARE TO BE INSTALLED SUBSEQUENTLY, A WRITTEN NOTIFICATION FROM THE AFFECTED UTILITY COMPANY INDICATING ITS COMMITMENT TO BORE OR TUNNEL SHALL BE SUBMITTED TO THE CITY ENGINEER BEFORE PROCEEDING WITH THE WORK. UNDERGROUND UTILITIES, EXCEPT STORM DRAINS AND SANITARY SEWERS, SHALL NOT BE PERMITTED IN PAVEMENT AREA, WITH THE EXCEPTION OF STREET CROSSINGS, UNLESS APPROVED BY THE CITY ENGINEER.
- STORM DRAIN LINES INSTALLED AS PART OF THE WORK ON THESE PLANS SHALL BE CLEARED OF ALL DEBRIS AND OBSTRUCTIONS PRIOR TO FINAL ACCEPTANCE
- ALL TRENCH BACKFILL, FILL AREAS, AND BASE MATERIAL SHALL ATTAIN A MINIMUM 95% RELATIVE COMPACTION.
- TREES, ROOTS, AND FOREIGN MATTER IN EXISTING OR RIGHT-OF-WAY SHALL BE REMOVED TO A DEPTH OF TWO (2) FEET BELOW SUBGRADE AND DISPOSED PER CALTRANS STANDARDS. IN THE CASE OF LIVE TREE ROOTS FROM CITY STREET TREES, CONTRACTOR SHALL CONTACT THE CITY FOR FIELD OBSERVATION PRIOR TO REMOVING TREE ROOTS
- TRENCH PLATES IN THE TRAVELED WAY SHALL BE TRAFFIC RATED, PROPERLY SECURED AND SHALL BE RECESSED UPON THE REQUEST OF THE DIRECTOR OF PUBLIC WORKS.
- ALL TRENCHES LOCATED WITHIN 5' OF THE EDGE OF PAVEMENT (i.e. CURB, LIP OF GUTTER, EDGE OF PAVEMENT, ETC.) SHALL BE REPAVED TO THE EDGE OF PAVEMENT.
- EXISTING PAVEMENT THAT IS REMOVED OR DAMAGED SHALL BE REPLACED AS REQUIRED BY THE CITY ENGINEER.
- MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO FINISHED GRADE PRIOR TO FINAL SIGNOFF.
- FIVE (5) WORKING DAYS PRIOR TO INSTALLING PERMANENT STRIPING, THE CONTRACTOR SHALL CAT TRACK THE STRIPING AND REQUEST REVIEW OF THE CAT TRACKS BY THE CITY TRAFFIC ENGINEER. THE CITY ENGINEER SHALL HAVE THE RIGHT TO MAKE CHANGES IN THE LOCATION OF THE ALIGNMENTS OF TRAFFIC STRIPES, PAVEMENT MARKING, AND PAVEMENT MARKERS.
- 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.
- A MINIMUM THICKNESS OF FIVE (5) INCHES OF CONCRETE SHALL BE REQUIRED FOR COMMERCIAL DRIVEWAY APPROACHES AND FOUR (4) INCHES FOR RESIDENTIAL. THE DRIVEWAY APPROACH SHALL BE INSTALLED CONCURRENT WITH THE CONSTRUCTION OF THE CURB AND GUTTER.
- ONE POUND OF DISPERSING BLACK SHALL BE MIXED WITH EACH CUBIC YARD OF CONCRETE AT THE BATCH PLANT.
- NEW CITY STANDARD STREET MONUMENTS AND OTHER PERMANENT MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY ENGINEER. ATTENTION IS DIRECTED TO SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE FOR THE REQUIREMENTS CONCERNING SURVEY MONUMENTS. EXISTING SURVEY MONUMENTS SHALL BE LOCATED AND REFERENCED BY OR UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER PRIOR TO CONSTRUCTION OPERATION AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR OF THE COUNTY OF SANTA CLARA. EXISTING SURVEY MONUMENTS SHALL BE RESET TO FINISH GRADE, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR OF THE COUNTY OF SANTA CLARA PRIOR TO THE RECORDING OF THE CERTIFICATE OF COMPLETION FOR THE PROJECT.
- NOTIFY THE CITY INSPECTOR TWO (2) WORKING DAYS IN ADVANCE OF REQUIRING SERVICES FOR FIELD STAKING.

**U.S.A. NOTE:**

ALL CONTRACTORS SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATIONS OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO BEGINNING WORK. ALL CONTRACTORS SHALL CALL U.S.A., 811(1-800-227-2600) 48-HOURS BEFORE DIGGING. EXCAVATION FOR UNDERGROUND FACILITIES SHALL NOT BE PERMITTED PRIOR TO CONTACTING UNDERGROUND SERVICE ALERT AND VERIFICATION OF ALL OTHER EXISTING UTILITY LOCATIONS NOT INCLUDED IN U.S.A. LOCATION SERVICES.

**POTHOLE AND VERIFY:**

CONTRACTOR SHALL POTHOLE AND VERIFY LOCATION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO BEGINNING WORK. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION PURPOSES ONLY. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY UTILITY CONFLICT. CONTRACTOR WILL BE PAID FOR ADDITIONAL ITEMS OF CONSTRUCTION AS A RESULT OF A UTILITY CONFLICT BUT WILL NOT BE PAID FOR DELAY OR RE-MOBILIZATION COSTS. ANY ADDITIONAL PAYMENT FOR UTILITY CONFLICTS MUST BE APPROVED BY PROJECT ENGINEER PRIOR TO THE CONSTRUCTION. ALL UTILITY CROSSING LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR MUST VERIFY ACTUAL LOCATIONS, SIZES AND DEPTHS PRIOR TO CONSTRUCTION.

**VERTICAL DATUM:**

NAV88 ELEVATIONS WERE ESTABLISHED BY RTK OSERVATIONS UTILIZING THE CSDS RTK NETWORK AND GEOID 12A.

**BASIS OF BEARINGS:**

NAD83(2011) CCS ZONE 3, EPOCH(2011) 2010.00 CSDS RTK NETWORK

**LEGEND:**

-  ABANDON FACILITY
-  Exist FENCE
-  Exist JOINT OVERHEAD ELECTRIC AND TELEPHONE
-  Exist GAS LINE
-  Exist SANITARY SEWER LINE
-  Exist STORM DRAIN LINE
-  Exist WATER LINE
-  Exist FLUSHING INLET
-  Exist SD MANHOLE
-  Exist SS MANHOLE
-  Exist DRAINAGE INLET
-  NEW SANITARY SEWER LINE
-  NEW STORM DRAIN LINE
-  NEW SD MANHOLE
-  NEW SS MANHOLE
-  POTHOLE
-  WATER SERVICE VALVE
-  UTILITY POLE
-  STREET LIGHT
-  STORM DRAIN SYSTEM

**POTHOLE LOCATION**

No.	DESCRIPTION	LOCATION	Exist GROUND ELEVATION	DEPTH*
1	4" SS LATERAL (Exist)	"S" 10+60.18, 7.00' Rt	325.37±	8.90±
2	4" SS LATERAL (Exist)	"S" 11+11.09, 7.00' Rt	325.13±	8.81±
3	4" SS LATERAL (Exist)	"S" 11+74.86, 7.00' Rt	324.81±	8.76±
4	4" SS LATERAL (Exist)	"S" 14+17.55, 7.00' Rt	323.79±	5.67±
5	4" SS LATERAL (Exist)	"S" 16+48.47, 7.00' Rt	322.79±	4.67±
6	4" SS LATERAL (Exist)	"S" 17+02.07, 6.92' Rt	322.58±	4.33±
7	4" SS LATERAL (Exist)	"S" 17+59.17, 6.83' Rt	322.29±	4.08±

\* DEPTH TO TOP OF PIPE

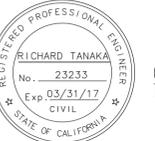


**MARK THOMAS & COMPANY INC.**  
 Providing Engineering, Surveying, and Planning Services  
 1960 Zanker Road  
 San Jose, CA 95112  
 (408) 453-5373

DESIGNED BY :	BN				
DRAWN BY :	BN				
CHECKED BY :	FQ				
DATE :	03/30/15	No.	DESCRIPTION	DATE	BY
SCALE :					
MTCo JOB No. :	CU-14116				



**City of Cupertino**  
 Public Works Department  
 10300 TORRE AVENUE, CUPERTINO, CA 95014  
 (408) 777-3354 FAX (408) 777-3333



RICHARD TANAKA  
 No. 23233  
 Exp. 03/31/17  
 CIVIL  
 STATE OF CALIFORNIA

*[Signature]*  
 REGISTERED CIVIL ENGINEER

03/30/15  
 DATE

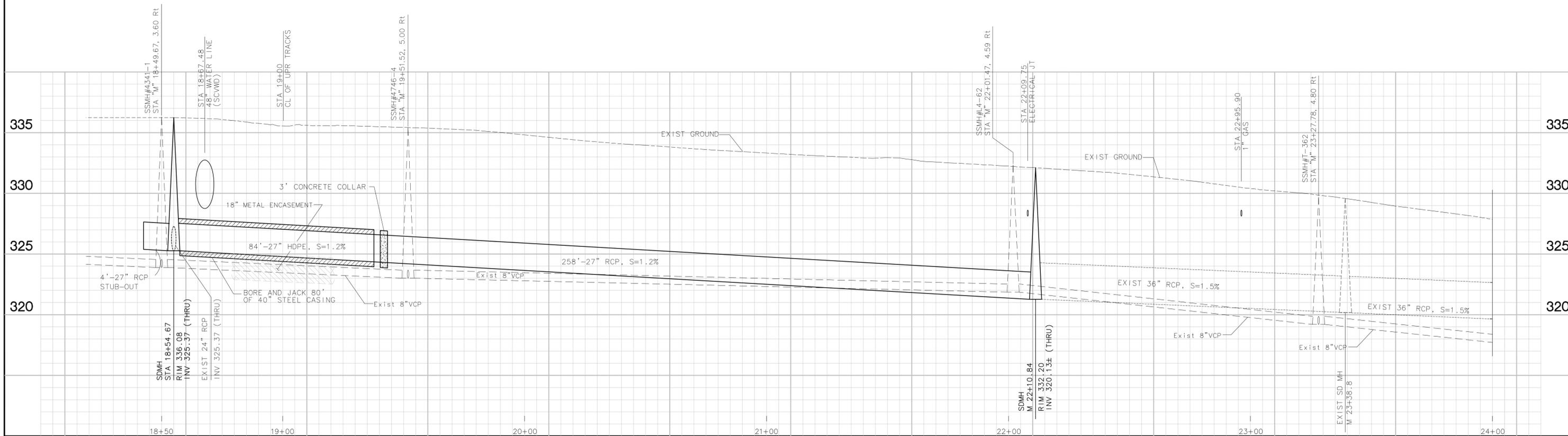
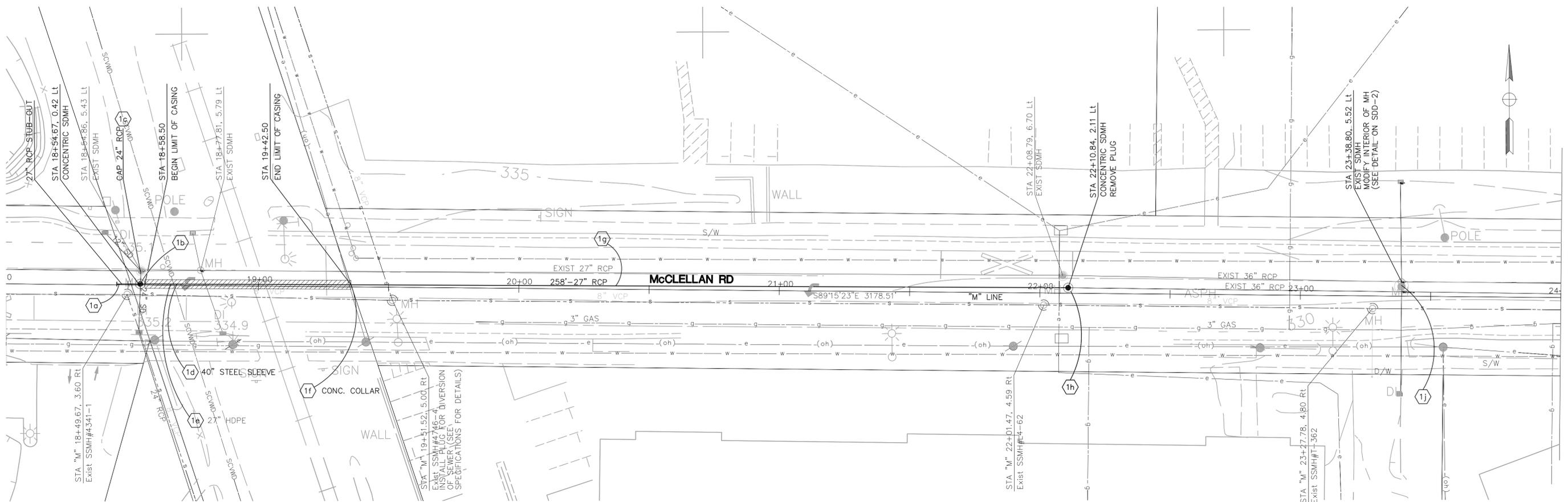
**GENERAL NOTES**

**BUBB, ELM, & McCLELLAN ROAD STORM DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
 CITY OF CUPERTINO

WORK ORDER No. \_\_\_\_\_ ADVERTISEMENT DATE: \_\_\_\_\_ CONTRACT No. \_\_\_\_\_

SHEET  
**2**  
 OF 17 SHEETS  
**G-1**





**MARK THOMAS & COMPANY INC.**  
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SCALE :	H 1"=20'; V 1"=4'
MTCO JOB No. :	CU-14116

No.	DESCRIPTION	DATE	BY

**CUPERTINO**  
 City of Cupertino  
 Public Works Department  
 10300 TORRE AVENUE, CUPERTINO, CA 95014  
 (408) 777-3354 FAX (408) 777-3333

REGISTERED PROFESSIONAL ENGINEER  
 RICHARD TANAKA  
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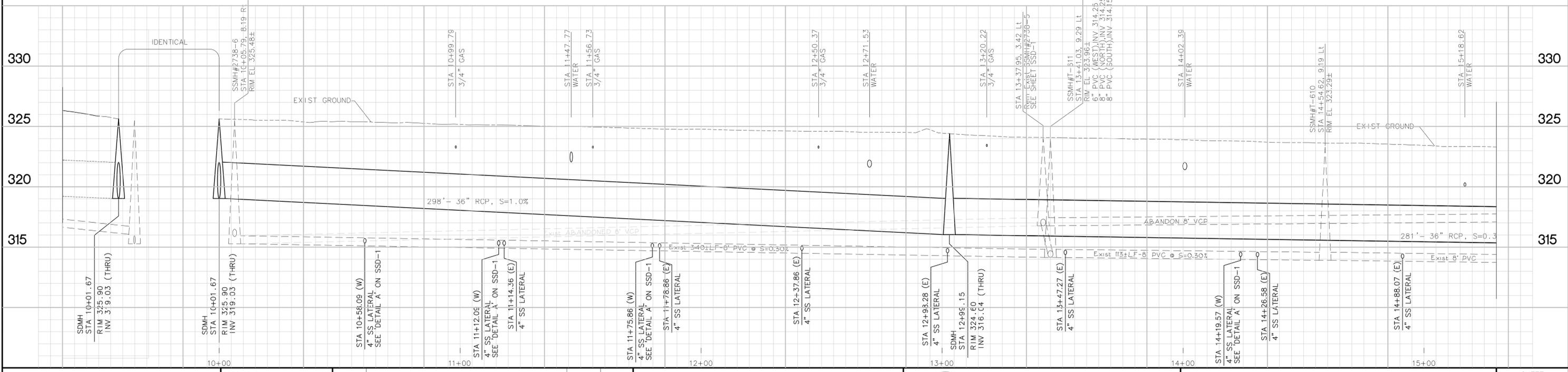
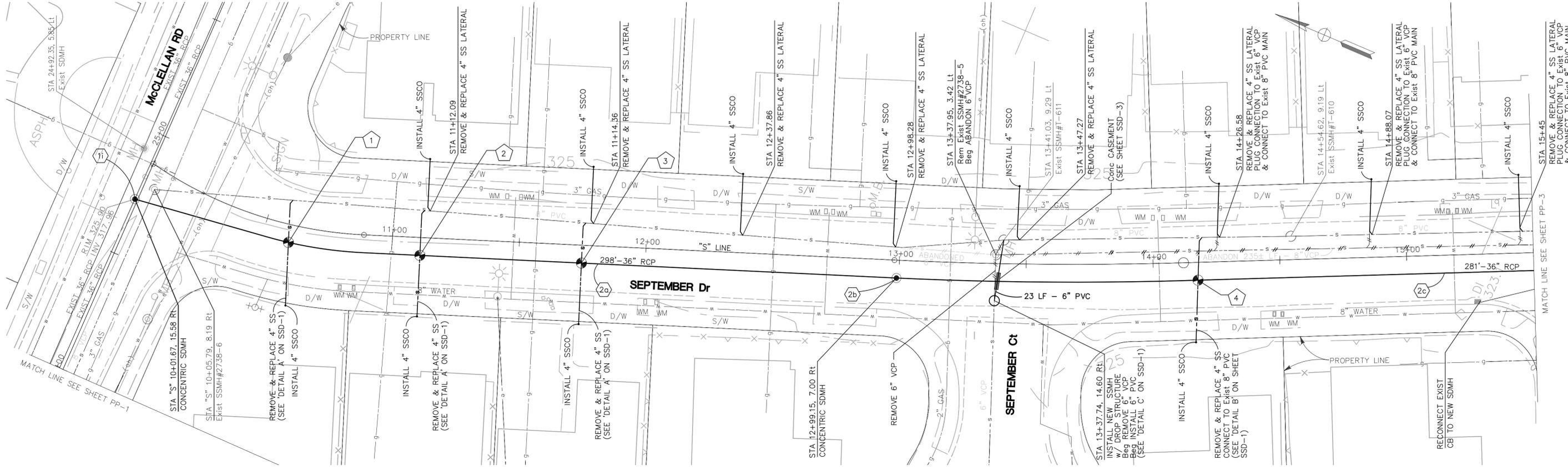
REGISTERED CIVIL ENGINEER  
 03/30/15  
 DATE

**PLAN AND PROFILE**  
**BUBB, ELM, & McCLELLAN ROAD STORM DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
 CITY OF CUPERTINO

WORK ORDER No.      ADVERTISEMENT DATE:      CONTRACT No.

SHEET  
**3**  
 OF 17 SHEETS  
**PP-1**





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 San Jose, CA 95112  
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DESIGNED BY : BN  
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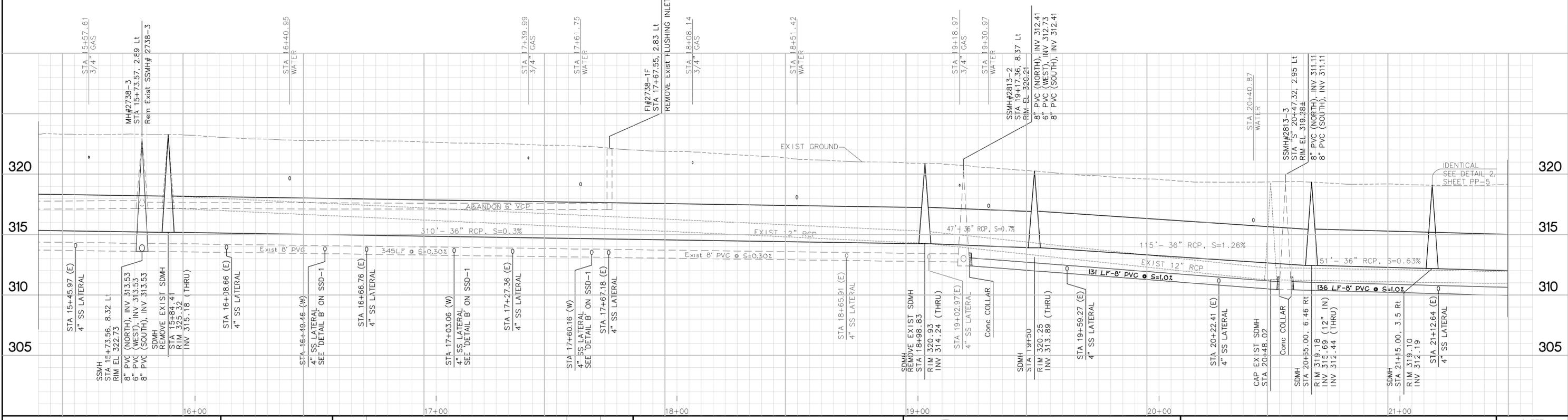
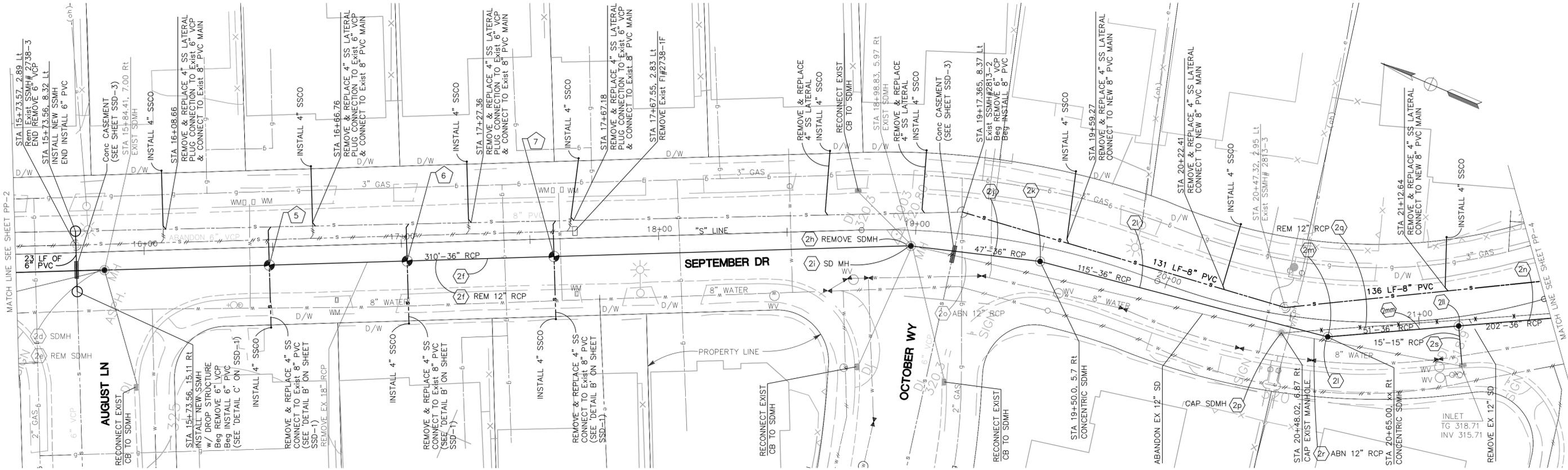
REGISTERED PROFESSIONAL ENGINEER  
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 No. 23233  
 Exp. 03/31/17  
 CIVIL  
 REGISTERED CIVIL ENGINEER  
 03/30/15  
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**PLAN AND PROFILE**  
**BUBB, ELM, & McCLELLAN ROAD STORM DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
 CITY OF CUPERTINO

WORK ORDER No. :      ADVERTISEMENT DATE:      CONTRACT No. :

SHEET  
**4**  
 OF 17 SHEETS  
**PP-2**





**MARK THOMAS & COMPANY INC.**  
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 San Jose, CA 95112  
 (408) 453-5373

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 MTCO JOB No. : CU-14116

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**CUPERTINO**

**City of Cupertino**  
 Public Works Department

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 RICHARD TANAKA  
 No. 23233  
 Exp. 03/31/17  
 CIVIL

REGISTERED CIVIL ENGINEER  
 DATE 03/30/15

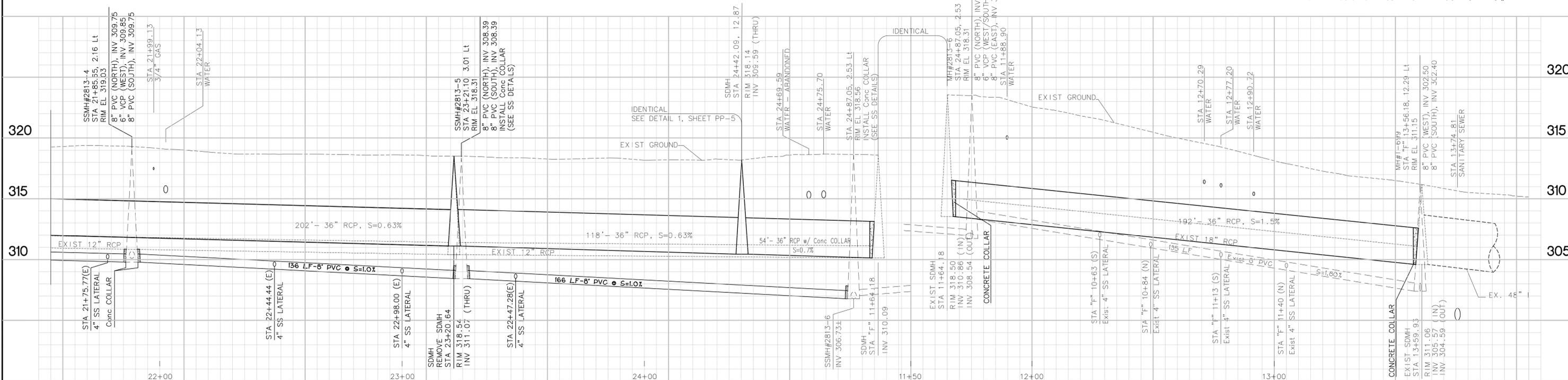
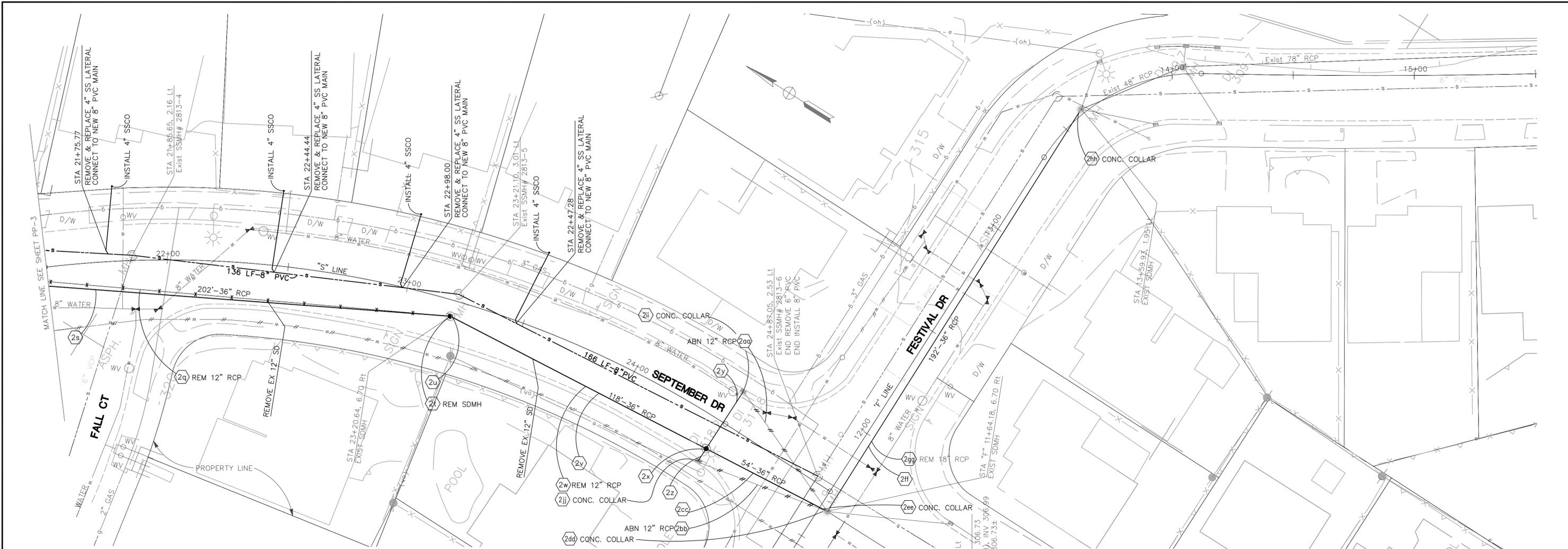
**PLAN AND PROFILE**

**BUBB, ELM, & McCLELLAN ROAD STORM DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
 CITY OF CUPERTINO

WORK ORDER No. :      ADVERTISEMENT DATE :      CONTRACT No. :

SHEET  
**5**  
 OF 17 SHEETS  
**PP-3**





**MARK THOMAS & COMPANY INC.**  
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 San Jose, CA 95112  
 (408) 453-5373

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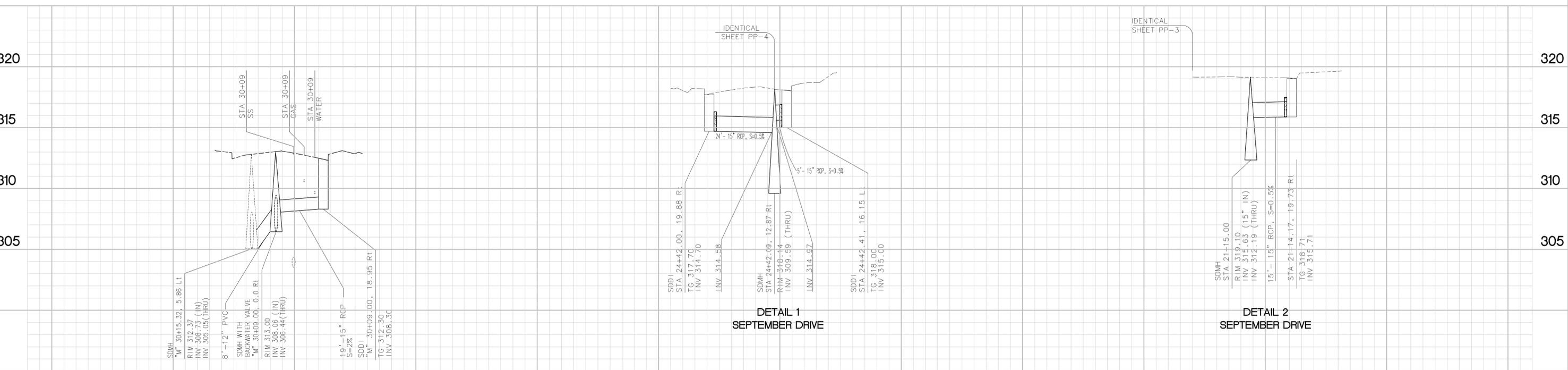
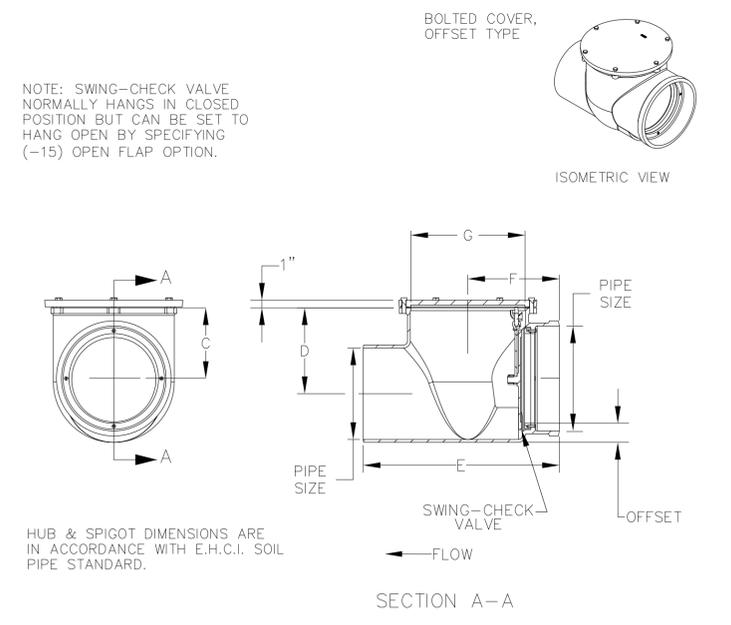
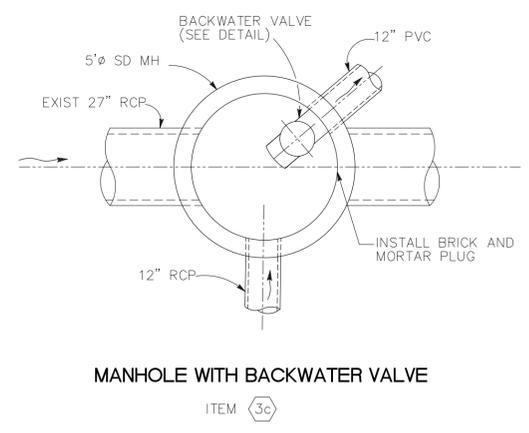
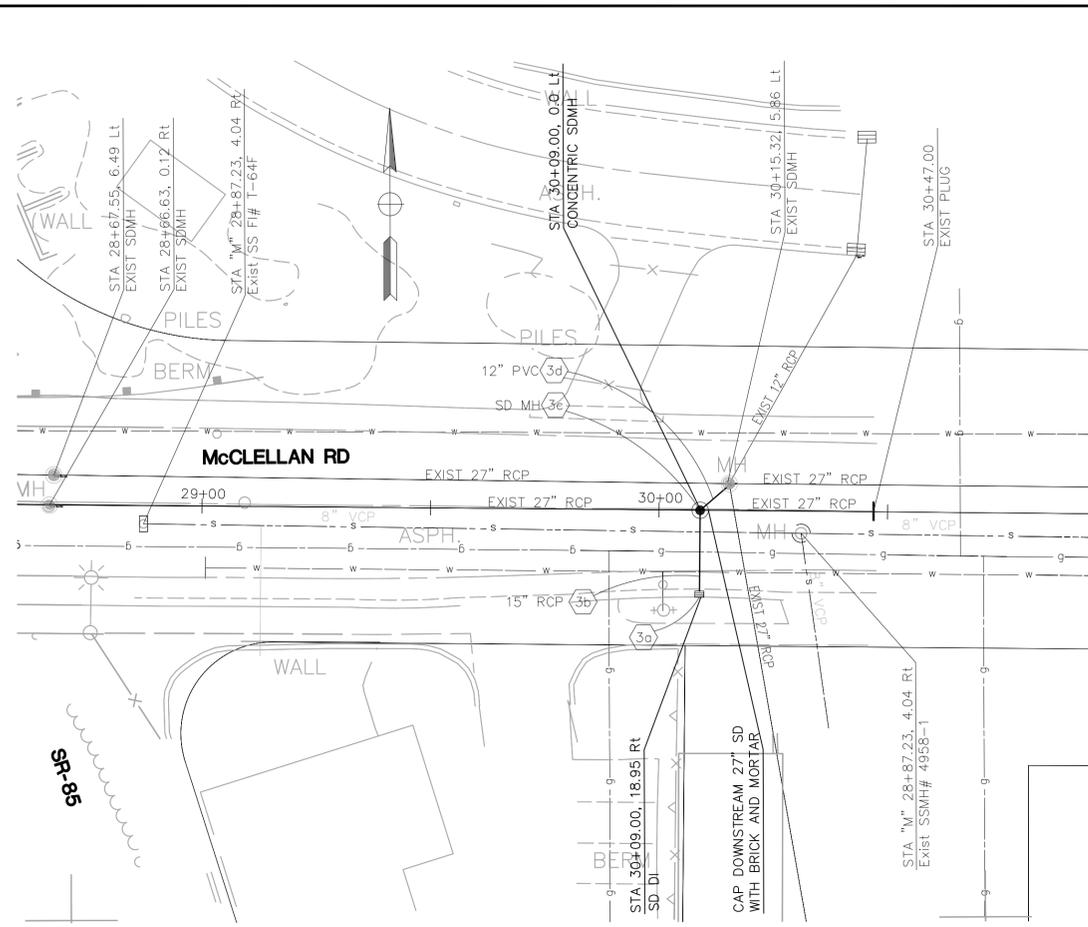
**CUPERTINO**  
 City of Cupertino  
 Public Works Department  
 10300 TORRE AVENUE, CUPERTINO, CA 95014  
 (408) 777-3354 FAX (408) 777-3333

**RICHARD TANAKA**  
 No. 23233  
 Exp. 03/31/17  
 CIVIL  
 REGISTERED CIVIL ENGINEER  
 03/30/15  
 DATE

**PLAN AND PROFILE**  
**BUBB, ELM, & McCLELLAN ROAD STORM DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
 CITY OF CUPERTINO

SHEET  
**6**  
 OF 17 SHEETS  
**PP-4**





**MARK THOMAS & COMPANY INC.**  
Providing Engineering, Surveying, and Planning Services  
1960 Zanker Road  
San Jose, CA 95112  
(408) 453-5373

DESIGNED BY :	BN
DRAWN BY :	BN
CHECKED BY :	FQ
DATE :	03/30/15
SCALE :	H 1"=20'; V 1"=4'
MTCO JOB No. :	CU-14116

No.	DESCRIPTION	DATE	BY

**CUPERTINO**  
City of Cupertino  
Public Works Department  
10300 TORRE AVENUE, CUPERTINO, CA 95014  
(408) 777-3354 FAX (408) 777-3333

REGISTERED PROFESSIONAL ENGINEER  
RICHARD TANAKA  
No. 23233  
Exp. 03/31/17  
CIVIL  
REGISTERED CIVIL ENGINEER  
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**PLAN AND PROFILE**  
**BUBB, ELM, & McCLELLAN ROAD STORM DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
CITY OF CUPERTINO

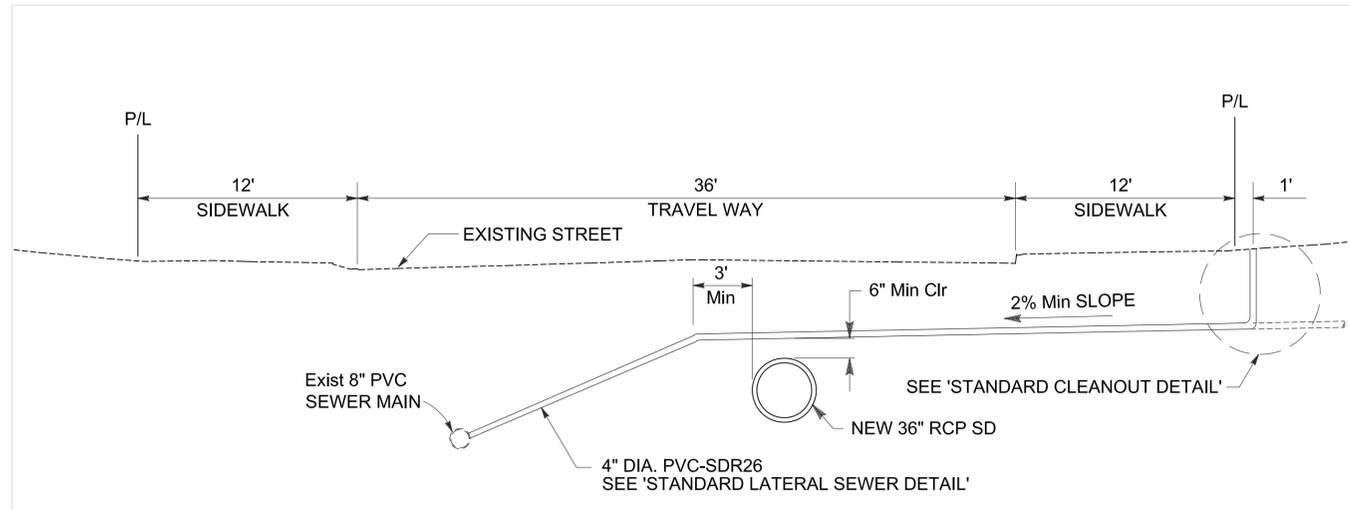
WORK ORDER No.      ADVERTISEMENT DATE:      CONTRACT No.

SHEET  
**7**  
OF 17 SHEETS  
**PP-5**



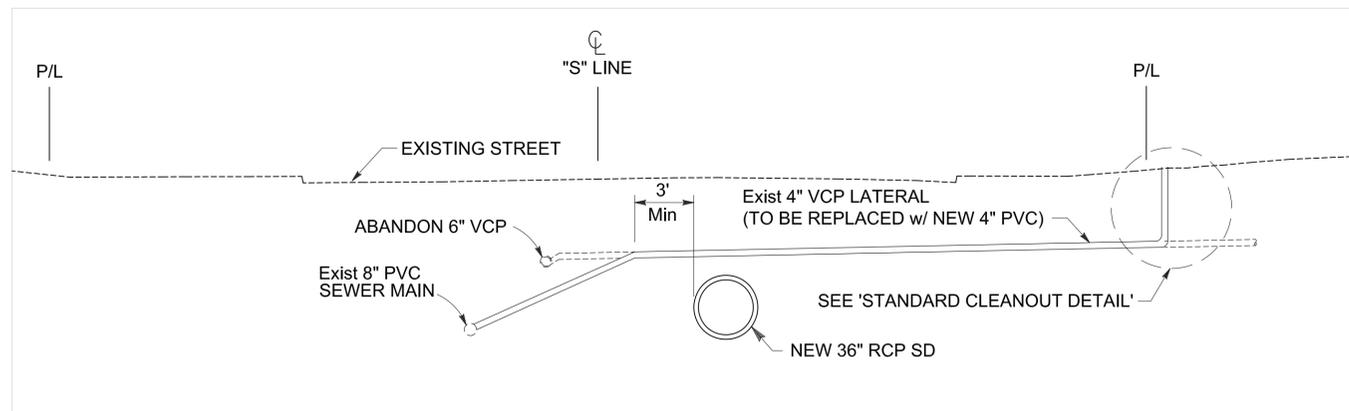
**NOTES:**

1. CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. SANITARY PIPE SHALL HAVE A MINIMUM 6" VERTICAL CLEARANCE FROM EXISTING UTILITIES. NOTIFY ENGINEER IF CLEARANCE CANNOT BE MET.
3. FOR ADDITIONAL INFORMATION NOT SHOWN, SEE CUPERTINO SANITARY DISTRICT STANDARD DETAILS.



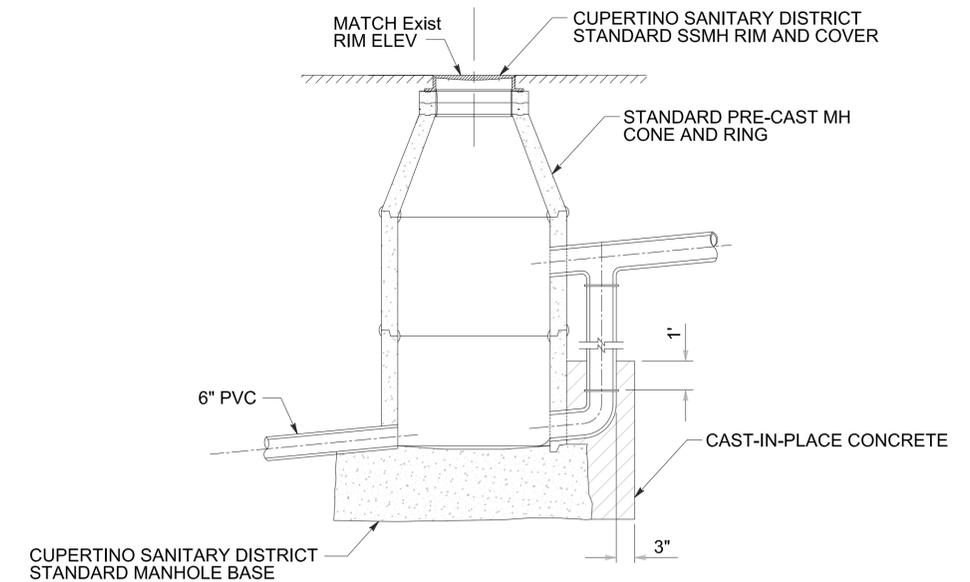
**DETAIL A - SS LATERAL OVER STORM DRAIN PIPE**

NO SCALE  
 STA "S" 10+58.09  
 STA "S" 11+12.09  
 STA "S" 11+75.86



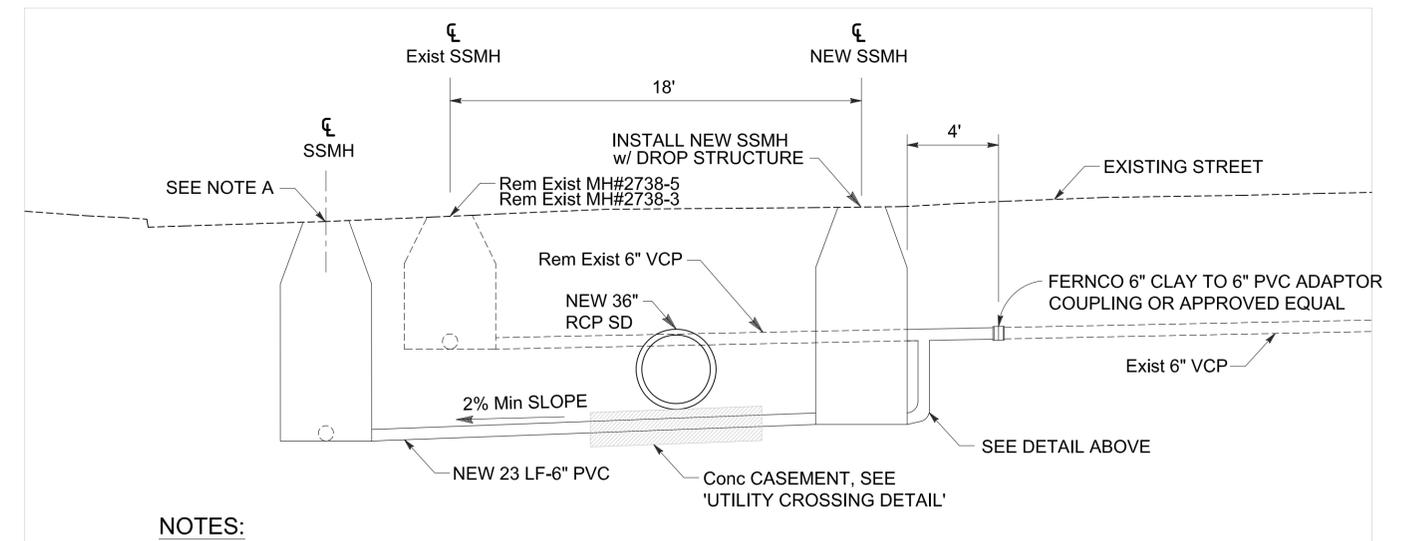
**DETAIL B - SS LATERAL CONNECTION TO Exist 8" SS MAIN**

NO SCALE  
 STA "S" 14+49.46  
 STA "S" 17+03.06  
 STA "S" 17+60.16  
 STA "S" 14+19.57



**NEW SS MANHOLE w/ DROP STRUCTURE  
 (SEPTEMBER COURT & AUGUST LANE)**

NO SCALE  
 STA "S" 13+37.74, 14.60' Rt  
 STA "S" 15+73.56, 15.11' Rt



**NOTES:**

- A. SEPTEMBER COURT - CONNECT NEW 6" PVC FROM NEW SSMH w/ DROP STRUCTURE TO Exist SSMH#T-611.  
 AUGUST LANE - CONNECT NEW 6" PVC FROM NEW SSMH w/ DROP STRUCTURE TO NEW SSMH.

**DETAIL C - SS LINE CONNECTION TO SS MANHOLE  
 (SEPTEMBER COURT & AUGUST LANE)**

NO SCALE  
 STA "S" 13+37.74, 14.60' Rt TO 13+41.03, 9.29' Lt  
 STA "S" 15+73.56, 15.11' Rt TO 15+73.56, 8.32' Lt

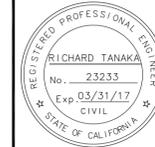


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*Richard Tanaka*  
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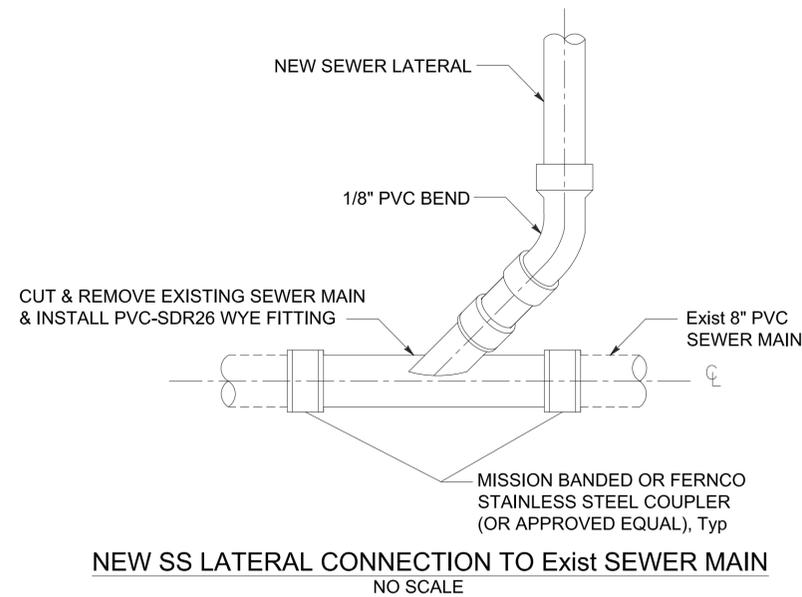
**SANITARY SEWER DETAILS**  
**BUBB, ELM, & McCLELLAN ROAD STORM  
 DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
 CITY OF CUPERTINO

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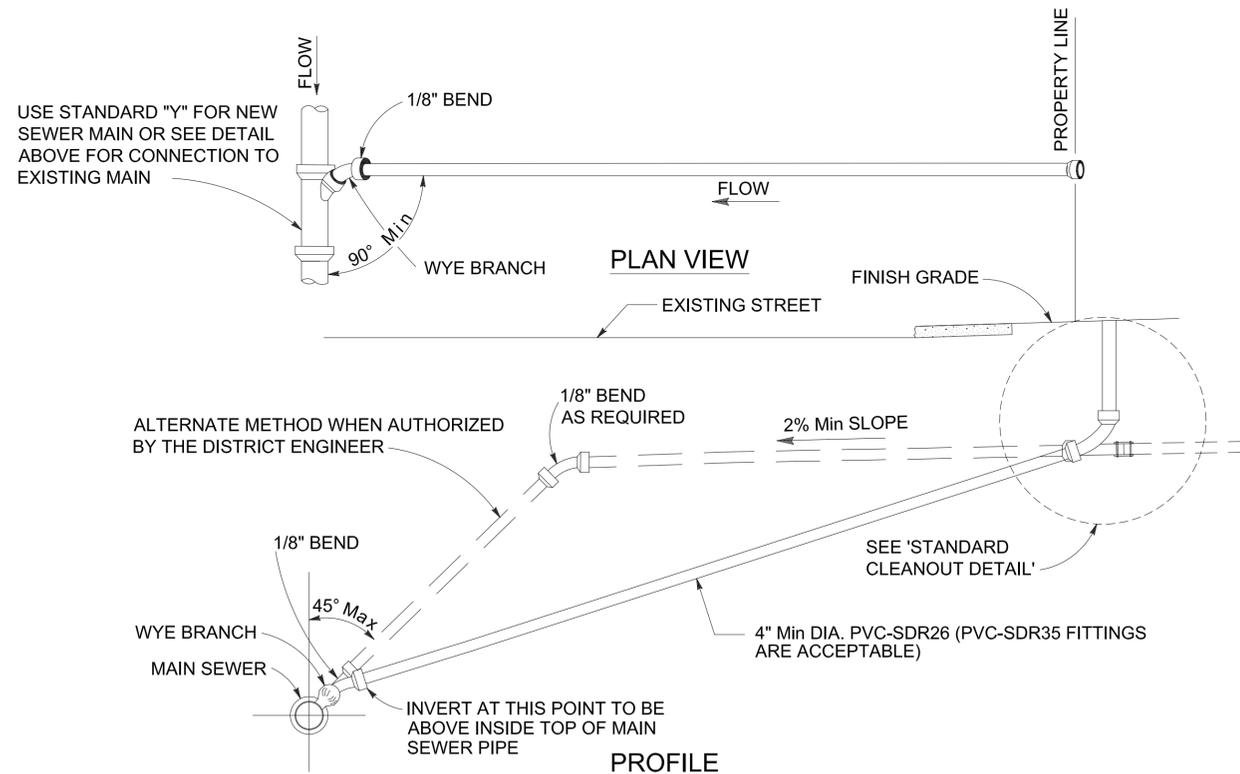
SHEET  
**8**  
 OF 17 SHEETS  
**SSD-1**

RELATIVE BORDER SCALE  
 IS IN INCHES





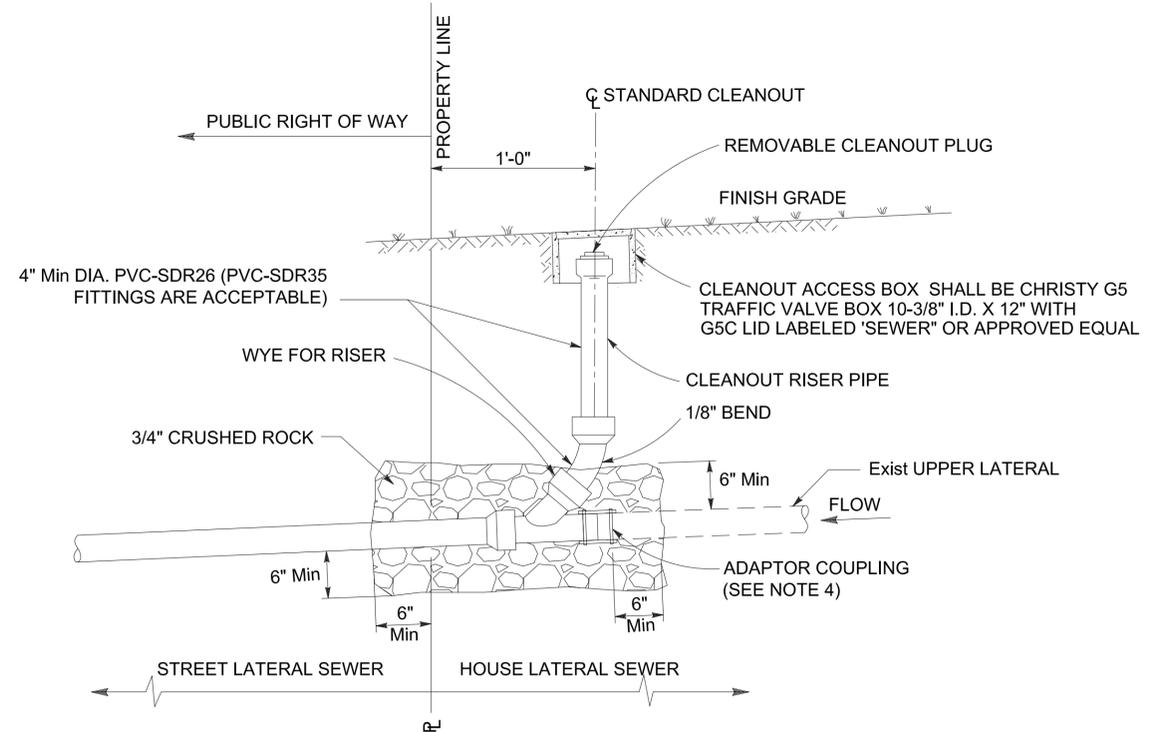
**NEW SS LATERAL CONNECTION TO Exist SEWER MAIN**  
NO SCALE



**NOTES:**

1. MINIMUM PIPE SLOPE IS 2%.
2. CONTRACTOR SHALL POT HOLE AND VERIFY LOCATION & DEPTH OF EXISTING SEWER LATERAL PRIOR TO RECONSTRUCTION OF THE LATERAL.
3. TRENCH BEDDING SHALL BE A MINIMUM OF 8" OF 3/4" CRUSHED ROCK.

**STANDARD LATERAL SEWER DETAIL**  
NO SCALE



**NOTES:**

1. 2% MINIMUM PIPE SLOPE (Typ).
2. LATERAL SEWER CLEANOUT TO BE SAME SIZE AS LATERAL SEWER (4-IN Min DIA).
3. AT LEAST 6-INCH CLEARANCE BETWEEN VALVE CAP AND INSIDE OF BOX REQUIRED.
4. MISSION BANDED STAINLESS STEEL "ARC SHIELD, FERNCO STAINLESS STEEL "SHEAR-RING", OR APPROVED EQUAL (Typ).

**STANDARD CLEANOUT DETAIL**  
NO SCALE

**UNDERGROUND CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES, INCLUDING SANITARY AND STORM SEWERS, AND WATER LINES BEFORE CONSTRUCTING NEW FACILITIES. CONTRACTOR SHALL CAP EXISTING IRRIGATION LINES WHERE NECESSARY SO THAT THE REMAINING IRRIGATION SYSTEM WILL CONTINUE TO BE OPERATIONAL FOR THE EXISTING LANDSCAPING TO REMAIN.
2. MATERIALS FOR PIPE, MANHOLES AND CLEANOUTS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE DISTRICT'S STANDARD SPECIFICATIONS AND THESE PLANS AND DETAILS SHOWN HEREON.
3. ALL TRENCH EXCAVATION AND BACKFILL FOR SEWER LINES SHALL CONFORM TO THE REQUIREMENTS OF CITY OF CUPERTINO STANDARD SPECIFICATIONS. JETTING OF BACKFILL MATERIALS TO ACHIEVE COMPACTION IS NOT ALLOWED.
4. ALL TRENCHES AND EXCAVATION SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.

**PAVING NOTES:**

1. ALL PAVING SHALL CONFORM TO CITY OF CUPERTINO STANDARD DETAILS.
2. AGGREGATE BASE SHALL CONFORM TO CLASS 2, 1-1/2" MAXIMUM PER SECTION 26 OF THE STATE STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED AND SHOULD ALSO BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95% BASED ON ASTM TEST PROCEDURE D-1557-78, AND CONFORM TO CITY OF CUPERTINO STANDARDS.
3. ASPHALT TO CONFORM TO SECTION 39 "ASPHALT CONCRETE" OF STATE STANDARD SPECIFICATIONS; TYPE B WITH 1/2" MAXIMUM, MEDIUM GRADATION, UNLESS OTHERWISE NOTED.
4. PORTLAND CEMENT CONCRETE SHALL CONFORM TO CLASS A, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
5. FLAT CONCRETE WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL CONFORM TO THE CITY OF CUPERTINO STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL NOT ORDER OR PLACE ANY PORTLAND CEMENT CONCRETE OR ASPHALT CONCRETE PAVING UNTIL THE FORMS AND SUBGRADE AND/OR AGGREGATE BASE HAVE BEEN INSPECTED BY THE CITY/DISTRICT INSPECTOR AS APPROVED BY THE ENGINEER IN CHARGE OF CONSTRUCTION.
7. EDGE OF EXISTING PAVEMENT SHALL BE TACK COATED PRIOR TO CONSTRUCTION OF NEW PAVEMENT.
8. ALL EXISTING FACILITIES SHALL BE ADJUSTED TO FINISH GRADE AS DIRECTED BY CITY/DISTRICT INSPECTOR. MANHOLES, WATER VALVE BOXES, CLEAN OUT FRAMES AND COVERS SHALL BE BROUGHT TO FINISHED GRADE BY THE CONTRACTOR AFTER PAVING IS COMPLETED.
9. IF ANY PORTION OF EXISTING SIDEWALK AND/OR CURB & GUTTER ARE TO BE REMOVED, CONTRACTOR SHALL REPLACE IN ACCORDANCE TO CITY OF CUPERTINO STANDARD DETAILS & SPECIFICATIONS.

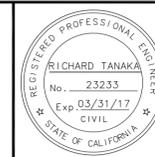


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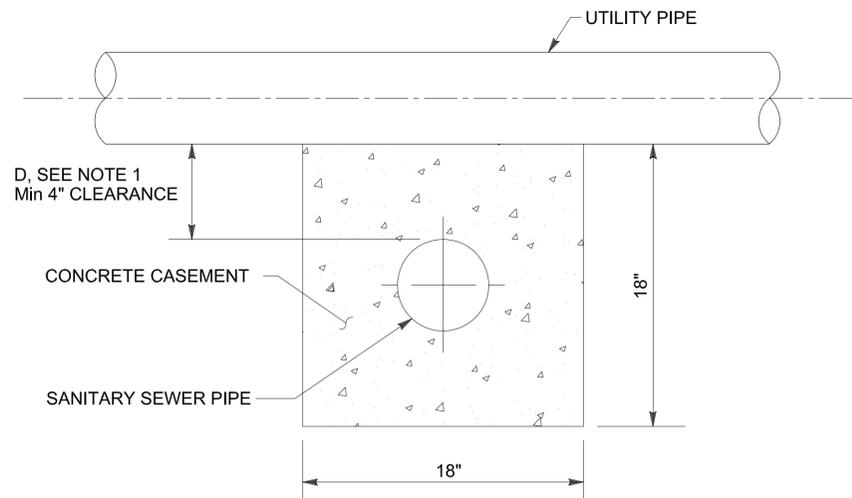
**SANITARY SEWER DETAILS**  
**BUBB, ELM, & McCLELLAN ROAD STORM DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
CITY OF CUPERTINO

WORK ORDER No.	ADVERTISEMENT DATE:	CONTRACT No.
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SHEET  
**9**  
OF 17 SHEETS  
**SSD-2**

RELATIVE BORDER SCALE IS IN INCHES

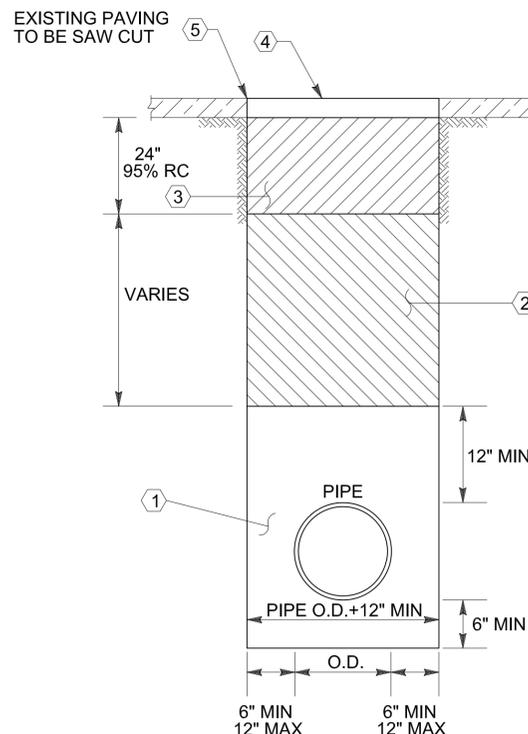




- NOTE:
1. IF D > 12", DETAIL DOES NOT APPLY.
  2. LENGTH OF CONCRETE CASEMENT SHALL BE UTILITY CROSS PIPE O.D. + 2'.

**UTILITY CROSSING DETAIL**

NO SCALE  
 STA "S" 13+38.79  
 STA "S" 15+73.57  
 STA "S" 19+15.54



**LEGEND:**

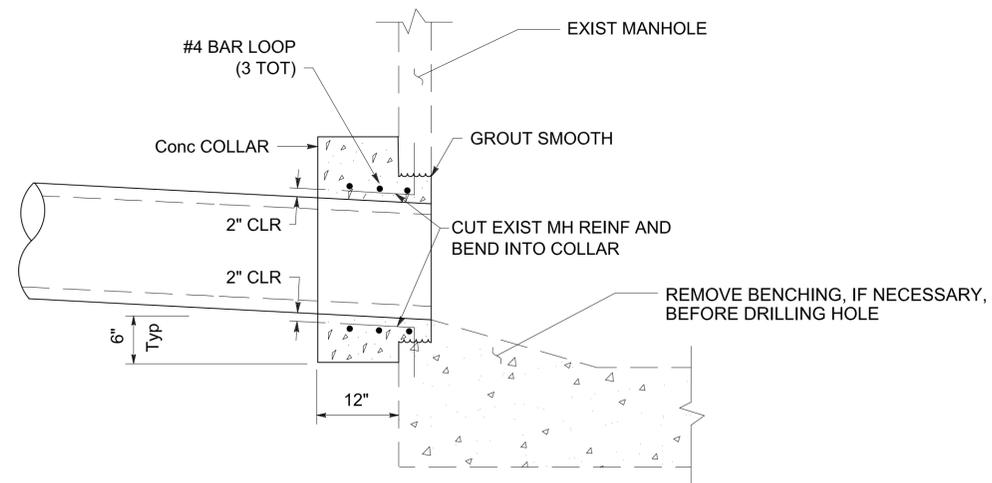
1. BEDDING MATERIAL PER CUSD STANDARD SPECIFICATIONS.
2. USE CLASS 3 AGGREGATE BASE COMPACTED TO 95%.
3. CLASS 2 AGGREGATE BASE, 3/4" MAX.
4. 4" ASPHALT CONCRETE OR MATCH EXISTING DEPTH WHICHEVER IS GREATER.
5. APPLY TACK COAT ON SAW CUT EDGES PER SECTION 94 OF STATE SPECIFICATIONS.

**NOTES:**

1. RELATIVE COMPACTION (RC) SHALL MEAN COMPACTION AS DETERMINED BY CALIFORNIA COMPACTION TEST METHOD OR BY ASTM METHODS.
2. ASPHALT CONCRETE TO BE HMA (TYPE A) 1/2" MAX AGGREGATE PER SECTION 39 OF STATE STANDARD SPECIFICATIONS.
3. ALL BACKFILL SHALL BE PLACED AND COMPACTED IN 6" MAXIMUM LIFTS.
4. CLASS 2 & 3 AGGREGATE BASE PER SECTION 26 & 27, AND ASPHALT CONCRETE (HMA) PER SECTION 39 OF THE STATE STANDARD SPECIFICATIONS AND DISTRICT STANDARD SPECIFICATIONS.

**STANDARD TRENCH DETAILS**

NO SCALE

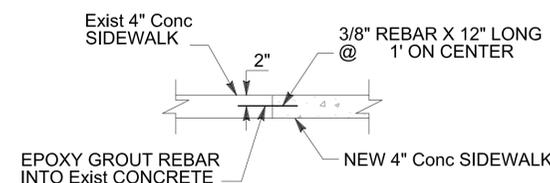


**NOTES:**

1. CORE-DRILL CIRCULAR OPENING IN MANHOLE WALL OF DIAMETER TO FIT PIPE.
2. CUT, SHAPE, AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM NEW SANITARY SEWER CONNECTION.
3. CLEAN EXISTING MANHOLE OF ANY DIRT, CONCRETE, OR DEBRIS WHICH MAY ACCUMULATE DURING CONSTRUCTION.

**SANITARY SEWER PIPE CONNECTION TO EXISTING MANHOLE**

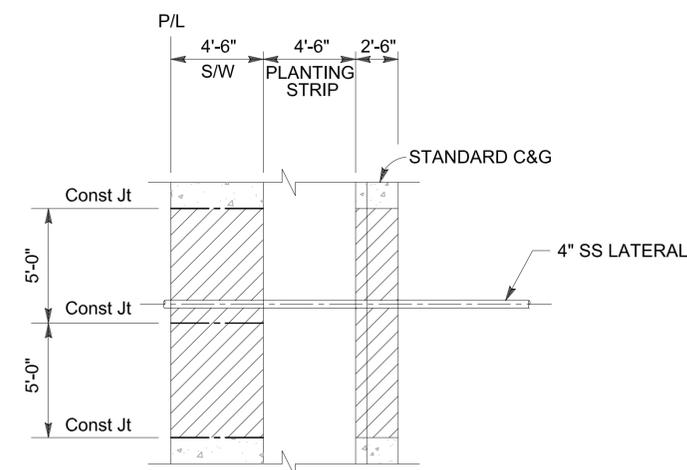
NO SCALE



**SIDEWALK REPLACEMENT JOINT DETAIL**

**NOTES:**

FOR ADDITIONAL INFORMATION NOT SHOWN, REFER TO CITY OF CUPERTINO STANDARD DETAILS AND SPECIFICATIONS.



**PLAN VIEW**

**SIDEWALK AND CURB & GUTTER**

**REPLACEMENT DETAILS**

NO SCALE

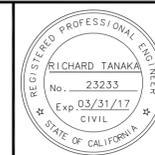


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REGISTERED CIVIL ENGINEER  
 DATE: 03/30/15

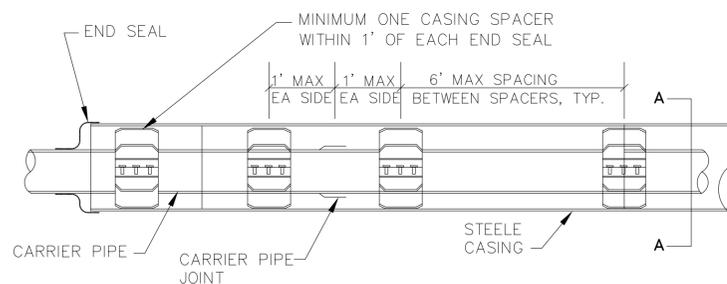
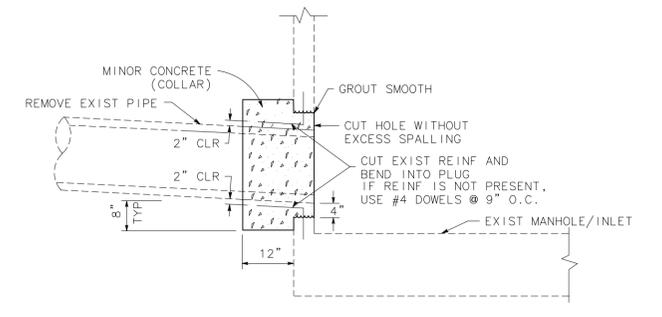
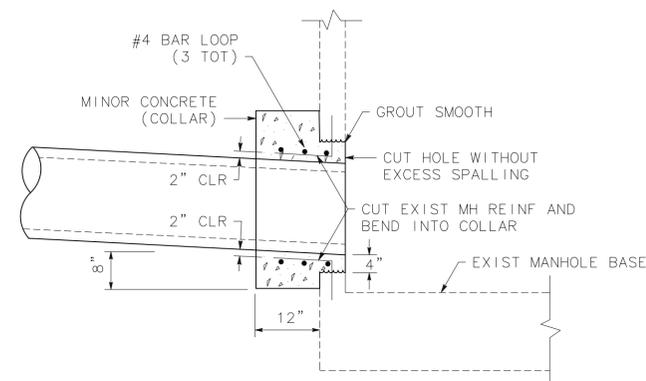
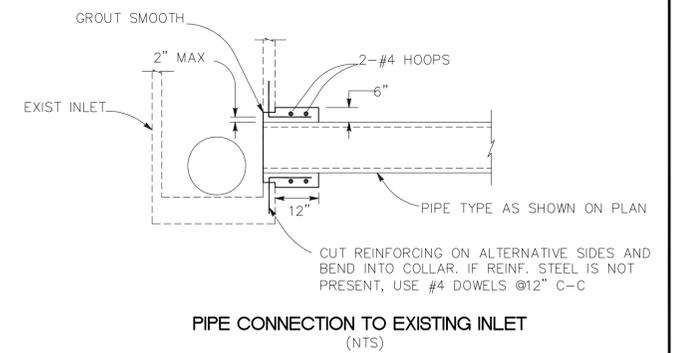
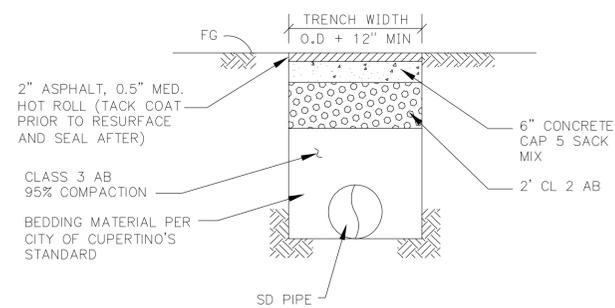
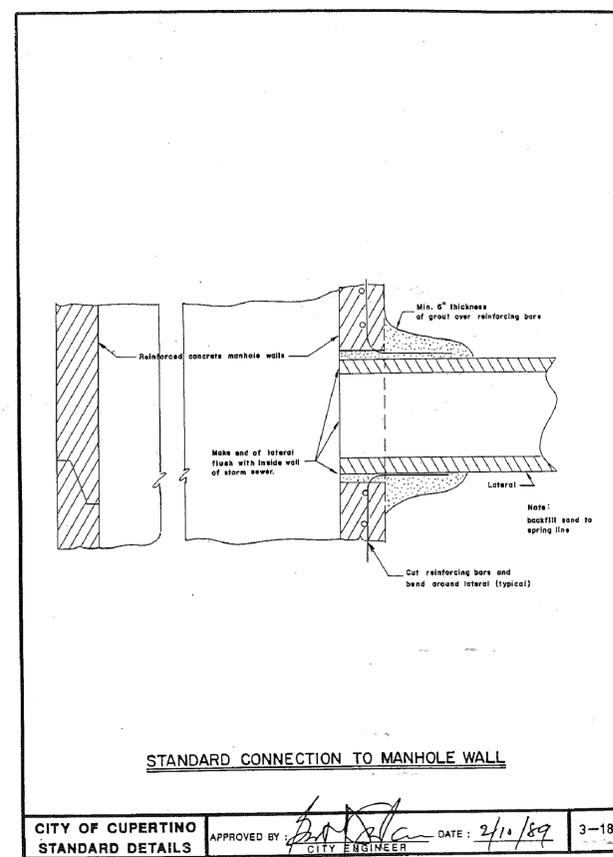
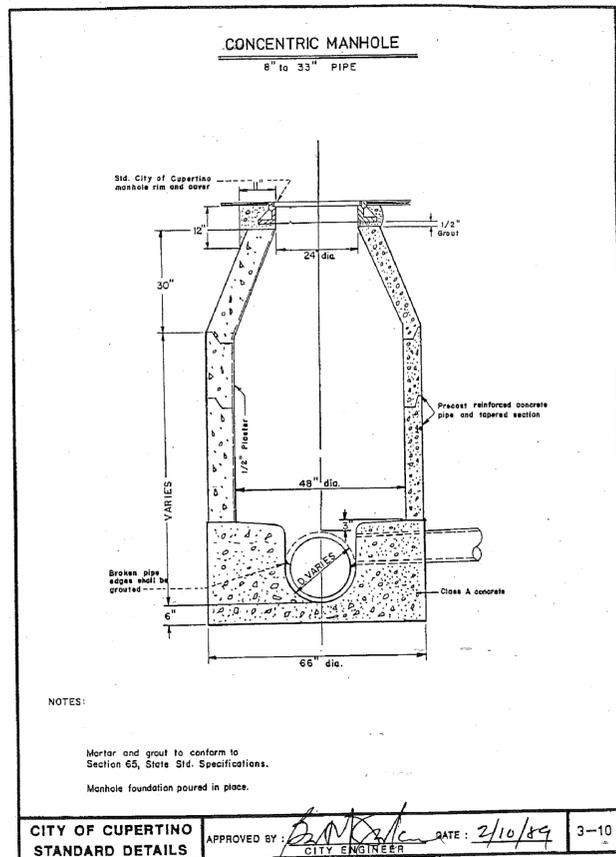
**SANITARY SEWER DETAILS**  
**BUBB, ELM, & McCLELLAN ROAD STORM**  
**DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
 CITY OF CUPERTINO

WORK ORDER No.	ADVERTISEMENT DATE:	CONTRACT No.
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SHEET  
**10**  
 OF 17 SHEETS  
**SSD-3**

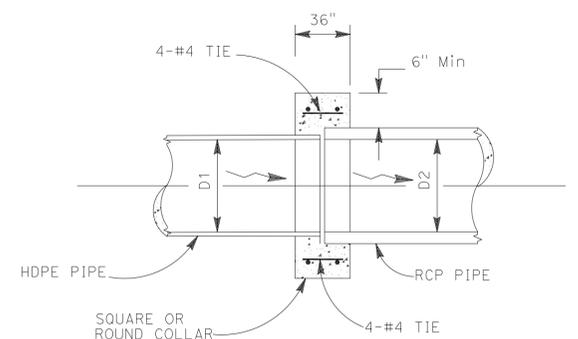
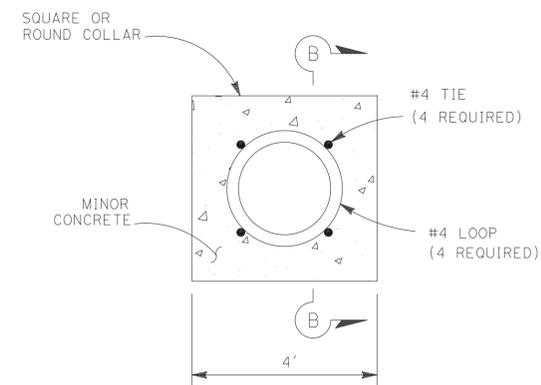
RELATIVE BORDER SCALE IS IN INCHES





**NOTES FOR PIPE CASING DETAIL**

- STEEL PIPE CASING SHALL BE SMOOTH STEEL PIPE FABRICATED IN SECTIONS IN ACCORDANCE WITH AWWA C201. LENGTHS OF CASING PIPE SHALL BE AS LONG AS PRACTICAL FOR SITE CONDITIONS.
- JOINTS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C206. JOINTS BETWEEN SECTIONS SHALL BE COMPLETELY WELDED TO THE PRECEDING SECTIONS. PRIOR TO WELDING JOINTS, THE CONTRACTOR SHALL ENSURE THAT BOTH ENDS OF THE CASING SECTIONS BEING WELDED ARE SQUARE.
- STEEL PIPE CASING WALL THICKNESS SHALL BE AS SPECIFIED SPECIFICATION. VERIFY CASING SIZES PRIOR TO ORDERING AND SIZING CASING INSULATORS.
- CASING SPACERS SHALL RESTRAINED-TYPE BOLTED SPACERS AND SHALL HAVE A MAXIMUM SPACING AS SHOWN, OR AS RECOMMENDED BY MANUFACTURER, WHICHEVER IS CLOSER. PIPE CASING SPACERS SHALL BE AS MANUFACTURED BY PIPELINE SEAL AND INSULATOR, INC., ADVANCE PRODUCTS AND SYSTEMS, INC., CALPICO, CASCADE WATERWORKS MFG, INC., OR APPROVED EQUAL.
- CASING END SEALS SHALL BE SYNTHETIC NEOPRENE RUBBER PULL-ON TYPE END SEALS WITH STAINLESS STEEL BANDS, AS MANUFACTURED BY THE ABOVE MANUFACTURERS, OR APPROVED EQUAL.



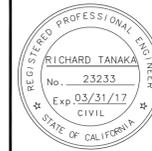
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*[Signature]*  
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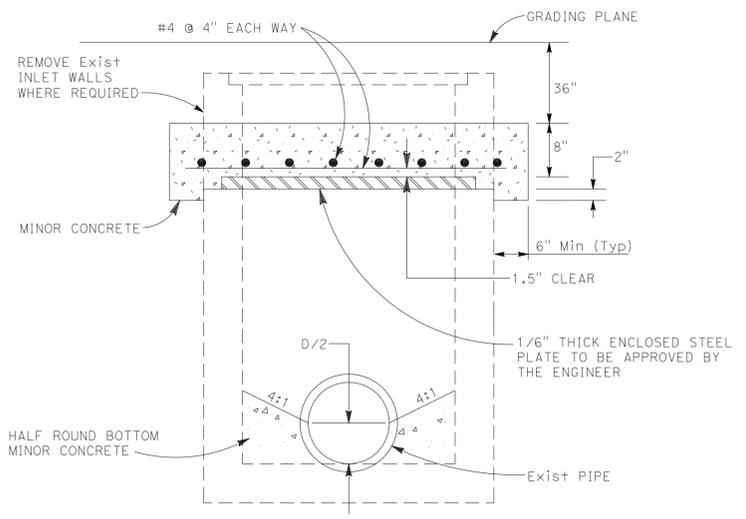
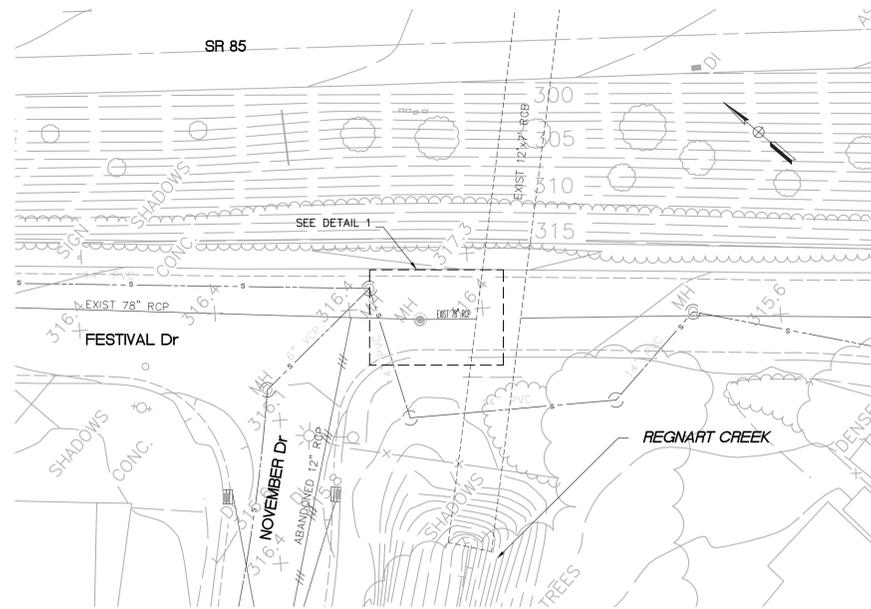
**STORM DRAIN DETAILS**  
**BUBB, ELM, & McCLELLAN ROAD STORM**  
**DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
CITY OF CUPERTINO

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SHEET  
**11**  
OF 17 SHEETS  
**SDD-1**

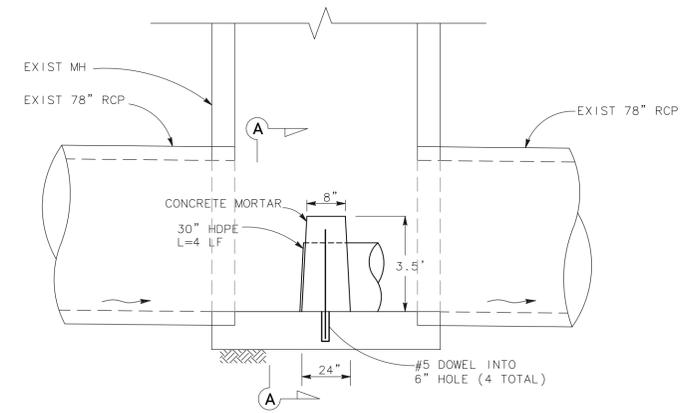
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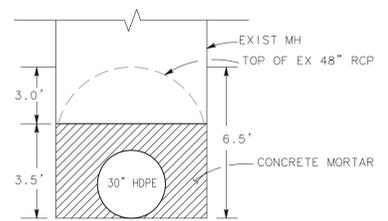


CAP STORM MANHOLE DETAIL

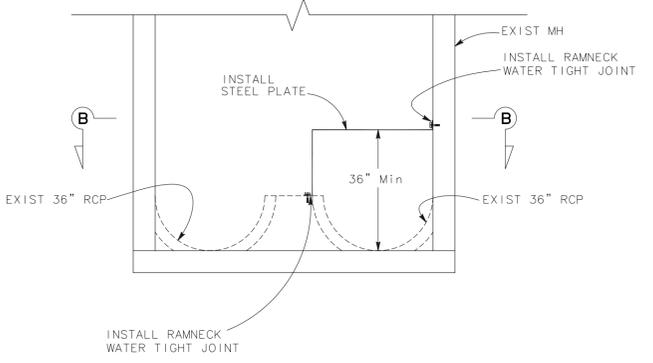
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ON SEPTEMBER DRIVE



RESTRICTOR AT MH OUTLET  
DETAIL 1

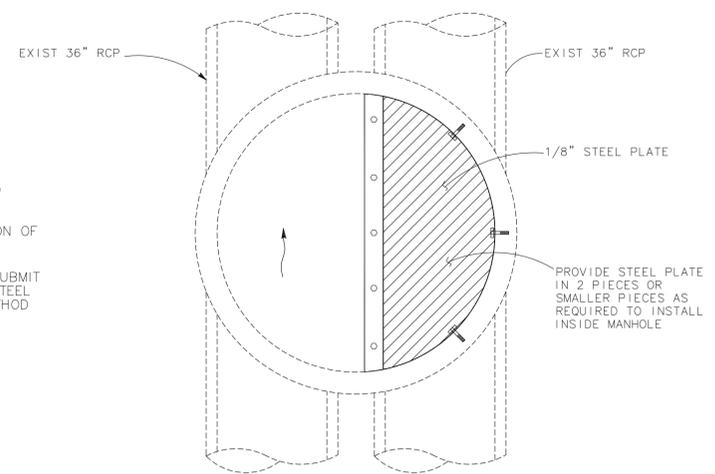


SECTION A-A



MODIFY MANHOLE'S INTERIOR DETAIL

STATION "M" 23+38.80  
ON McCLELLAN ROAD



SECTION B-B

NOTES FOR STEEL PLATE

1. CONTRACTOR TO FIELD MEASURE INSIDE THE EXISTING MANHOLE TO DETERMINE FABRICATION OF THE STEEL PLATE
2. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR STEEL FABRICATION AND METHOD OF INSTALLATION.

STORM DRAIN QUANTITY

DRAINAGE UNIT	12" PVC	15" RCP	27" RCP	36" RCP	27" HDPE	40" STEEL SLEEVE BORE AND JACK	CONCRETE COLLAR	SDMH	SDDI	REMOVE SDMH	CAP SDMH	ABANDON CULVERT	REMOVE CULVERT	BACKWATER VALVE	PLUG	STEEL PLATES
	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA
1a			4													
1b								1								
1c															1	
1d						80										
1e					84											
1f							1									
1g				258												
1h								1								
1i								1								
1j																1
2a				298												
2b								1								
2c				281												
2d								1								
2e									1							
2f				310									310			
2g									1							
2h										1						
2i								1								
2j				47												
2k								1								
2l				115												
2m								1								
2n				253												
2o												148				
2p										1						
2q													268			
2r												70				
2s				54												
2t									1							
2u								1								
2v				118												
2w												118				
2x								1								
2y				25												
2z				5												
2aa												59				
2bb												56				
2cc				54												
2dd							1									
2ee							1									
2ff				192												
2gg												192				
2hh							1									
2ii							1									
2jj							1									
2kk																
2ll				192												
2mm								1								
3a									1							
3b				19												
3c								1						1		
3d				8												
TOTAL	8	64	262	1668	84	80	5	12	1	3	1	333	888	1	1	1

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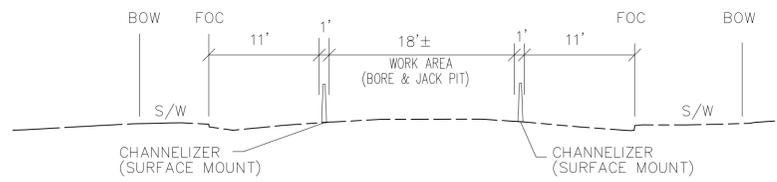
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DATE

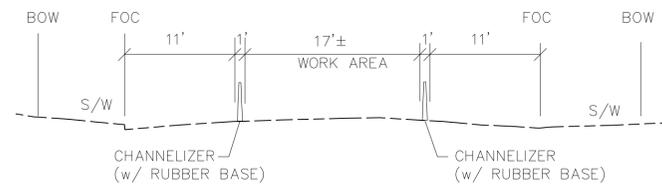
**STORM DRAIN DETAILS**  
**BUBB, ELM, & McCLELLAN ROAD STORM DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
CITY OF CUPERTINO  
WORK ORDER No. \_\_\_\_\_ ADVERTISEMENT DATE: \_\_\_\_\_ CONTRACT No. \_\_\_\_\_

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**12**  
OF 17 SHEETS  
**SDD-2**

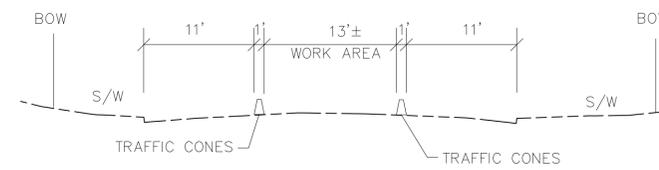




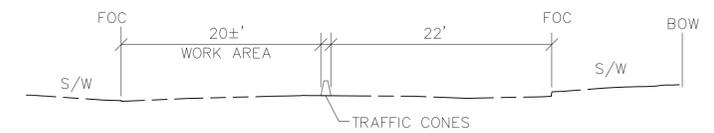
TYPICAL SECTION - PHASE 1A  
McCLELLAN RD.



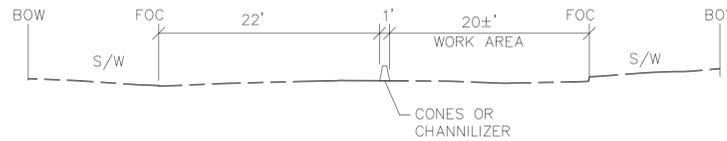
TYPICAL SECTION - PHASE 1B  
McCLELLAN RD.



TYPICAL SECTION - PHASE 1C  
McCLELLAN RD.



TYPICAL SECTION - SEPTEMBER DR. & FESTIVAL DR.  
STAGE 2A & 2B



TYPICAL SECTION - SEPTEMBER DR. & FESTIVAL CT.  
STAGE 4A & 4B

STAGE CONSTRUCTION NOTES

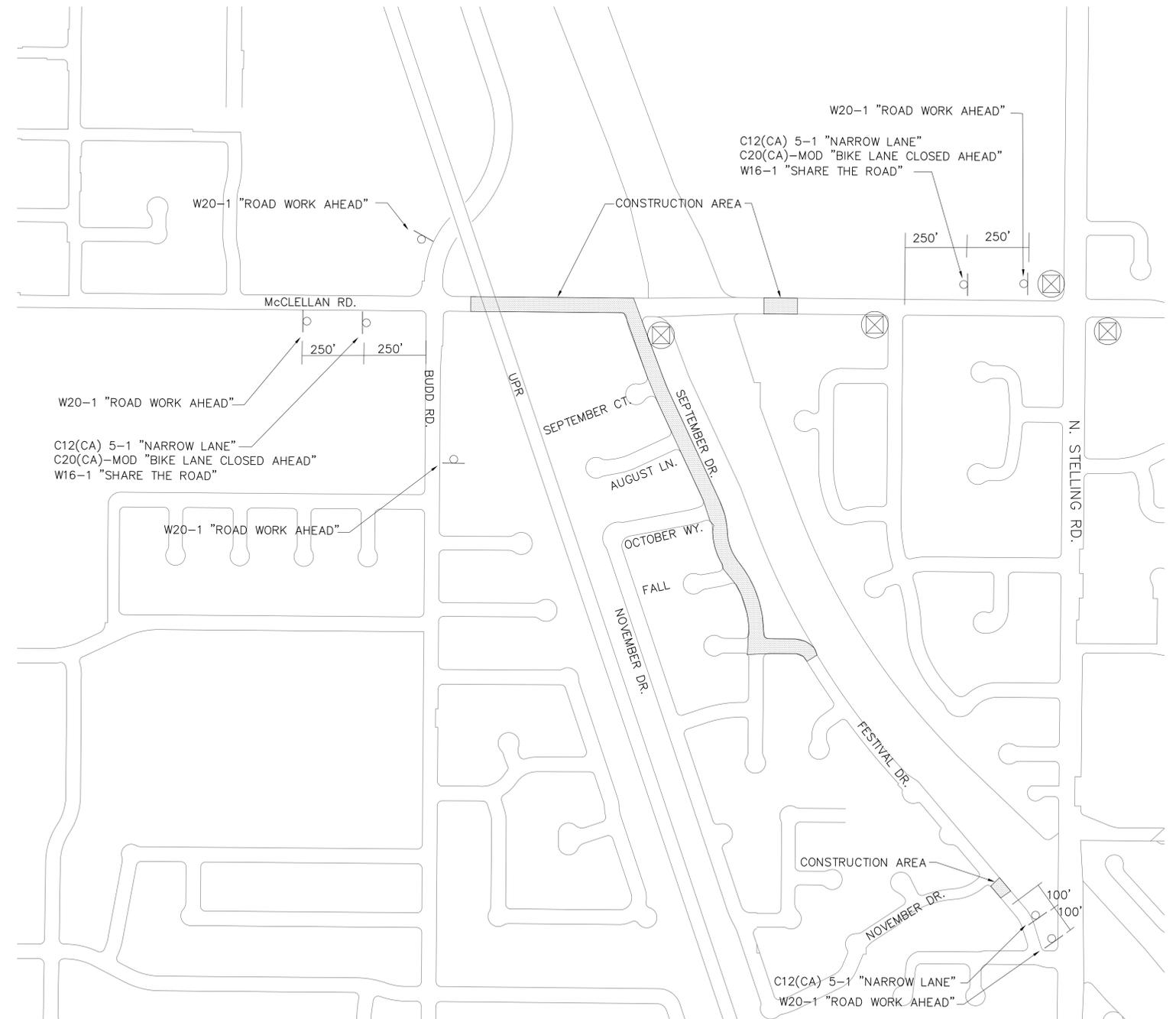
1. CONTRACTOR SHALL KEEP ALL DRIVEWAYS, CROSS STREETS, AND CROSS-WALKS ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION.
2. DURING CONSTRUCTION, ALL EXISTING SIGNS IN CONFLICT WITH STAGE CONSTRUCTION PLAN SHALL BE COVERED OR REMOVED UNDER THE DIRECTION OF THE ENGINEER.
3. PROTECT ALL UTILITY POLE, UTILITY BOX/Vaults IN PLACE.
4. ALL LANES ARE TO BE MAINTAINED AT 11'-0" MINIMUM UNLESS OTHERWISE NOTED.
5. ALL OPEN-TRENCH ARE TO BE COVERED WITH STEEL PLATES AFTER WORK HOURS AND REMAINS COVERED UNTIL THE NEXT WORKING DAY.
6. CONTRACTOR TO RECONSTRUCT EXISTING PAVEMENT UPON INSTALLATION OF STORM DRAIN OR SANITARY SEWER PIPES.
7. ALL TEMPORARY TRAFFIC CONTROL DEVICES MUST CONFORM TO 2014 CALIFORNIA MUTCD.
8. WHEN TRAFFIC CONTROL DEVICE ARE NOT IN USED, THEY SHALL BE MOVED AWAY FROM TRAVELED WAY SO THAT THEY ARE NOT VISIBLE TO TRAVELING MOTORISTS.
9. SPEED LIMIT REDUCTION SIGNING ARE SUBJECT TO REVIEW AND CHANGE BY THE CITY ENGINEER OR DESIGNEE.

LEGEND

- WORK AREA
- FLAGGER
- TEMPORARY TRAFFIC SIGN
- TRAFFIC DIRECTION
- CHANNELIZERS/CONES

FOR STAGE 1A, PROVIDE SIGN

EXPECT DELAY ON  
McCLELLAN AT BUDD  
USE ALT. ROUTE



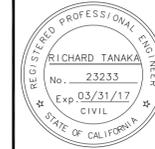
CONSTRUCTION AREA SIGNS

**MARK THOMAS & COMPANY INC.**  
Providing Engineering, Surveying, and Planning Services  
1960 Zanker Road  
San Jose, CA 95112  
(408) 453-5373

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DATE :	03/30/15	No.	DESCRIPTION	DATE	BY
SCALE :	NO SCALE				
MTCO JOB No. :	CU-14116				



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(408) 777-3354 FAX (408) 777-3333



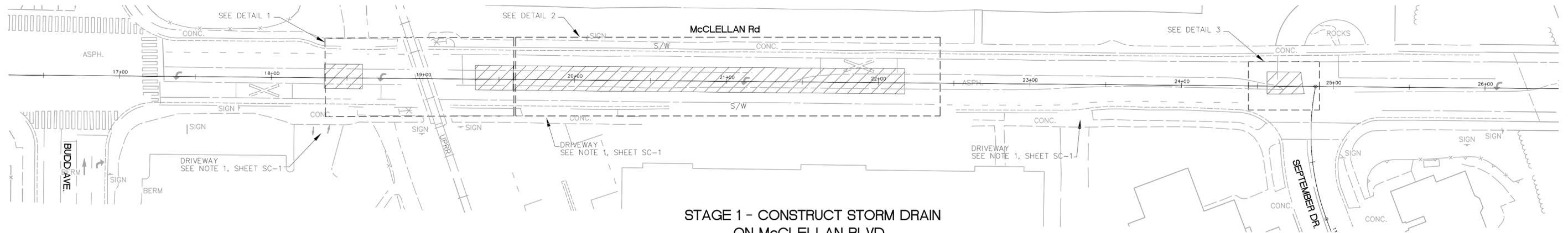
*Richard Tanaka*  
REGISTERED CIVIL ENGINEER  
03/30/15  
DATE

**STAGE CONSTRUCTION**  
**BUBB, ELM, & McCLELLAN ROAD STORM**  
**DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
**CITY OF CUPERTINO**

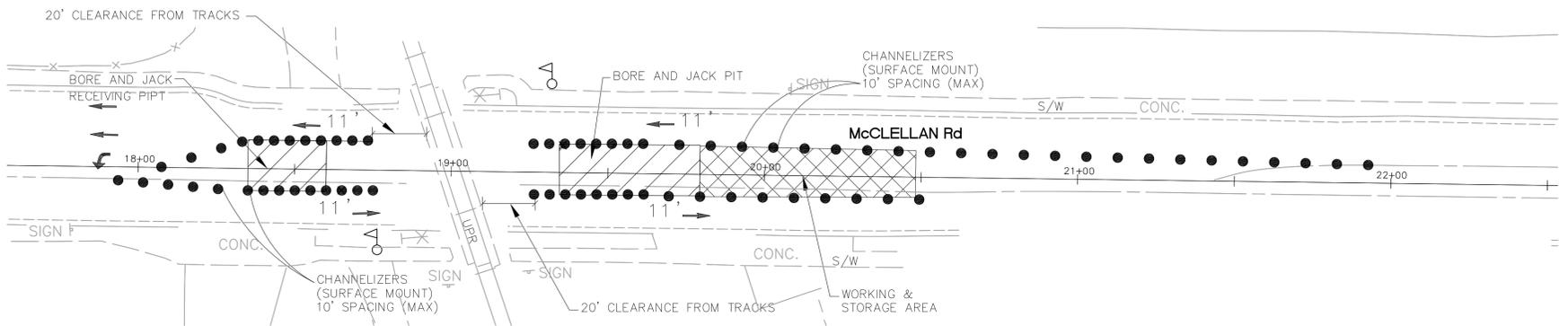
WORK ORDER No.	ADVERTISEMENT DATE:	CONTRACT No.
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SHEET  
**13**  
OF 17 SHEETS  
**SC-1**



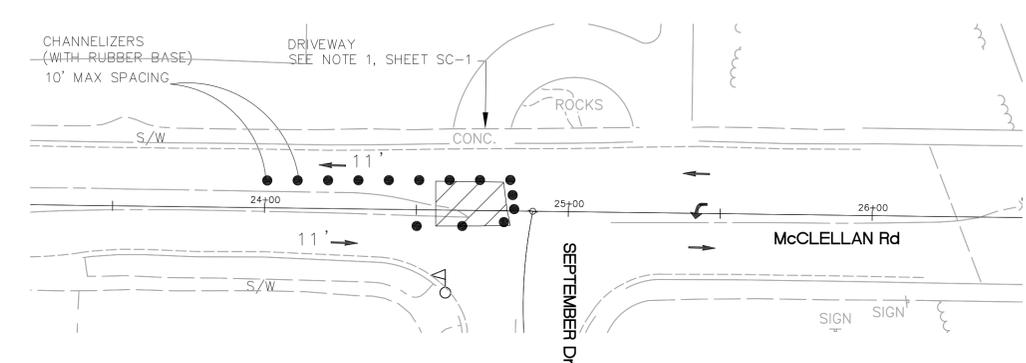


**STAGE 1 - CONSTRUCT STORM DRAIN  
ON McCLELLAN BLVD.  
(TO BE COMPLETED BY AUGUST 15, 2015)**



**DETAIL 1 - STAGE 1A  
BORE AND JACKING OPERATION**

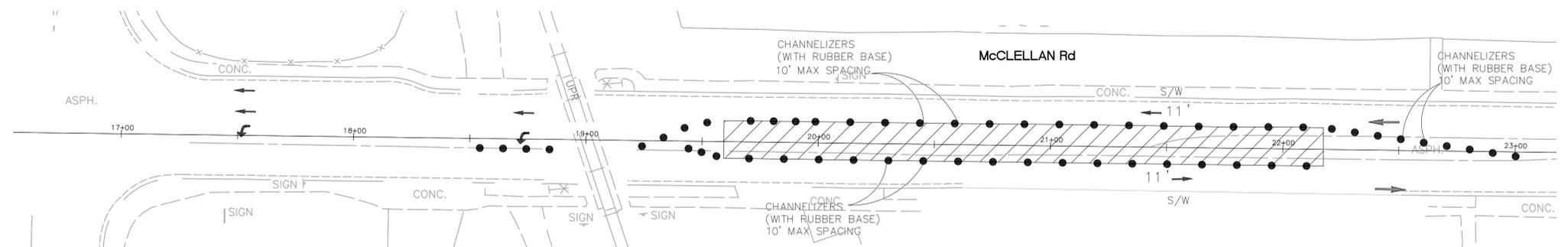
- STAGE 1A NOTES:
1. WORKING HOURS FOR BORE AND JACKING OPERATIONS 7:30 AM TO 4:30 PM
  2. AT NIGHT, PLACE STEEL PLATE ON PITS



**DETAIL 3 - STAGE 1C  
SD MANHOLE CONSTRUCTION**

**NOTES**

1. ORDER OF WORK
  - a. STAGE 1A - CONSTRUCT BORE AND JACKING 40" CASING; INSTALL 27" HDPE
  - b. STAGE 1B - MAINLINE SD MAIN CONSTRUCTION ON McCLELLAN ROAD
  - c. STAGE 1C - CONSTRUCT SD MANHOLE AT THE INTERSECTION OF McCLELLAN/SEPTEMBER
  - d. STAGE 1D-1 & 1D-1 - WORK ON SD EAST OF SR 85 TO BE DONE CONCURRENT WITH STAGE 1A & 1B.



**DETAIL 2 - STAGE 1B  
27" SD MAINLINE CONSTRUCTION**

- STAGE 1B NOTES:
1. WORKING HOURS 9:00 AM TO 3:30 PM
  2. AT NIGHT, PLACE STEEL PLATE ON ANY OPEN TRENCHES.

FOR NOTE AND LEGEND NOT SHOWN, SEE SHEET SC-1

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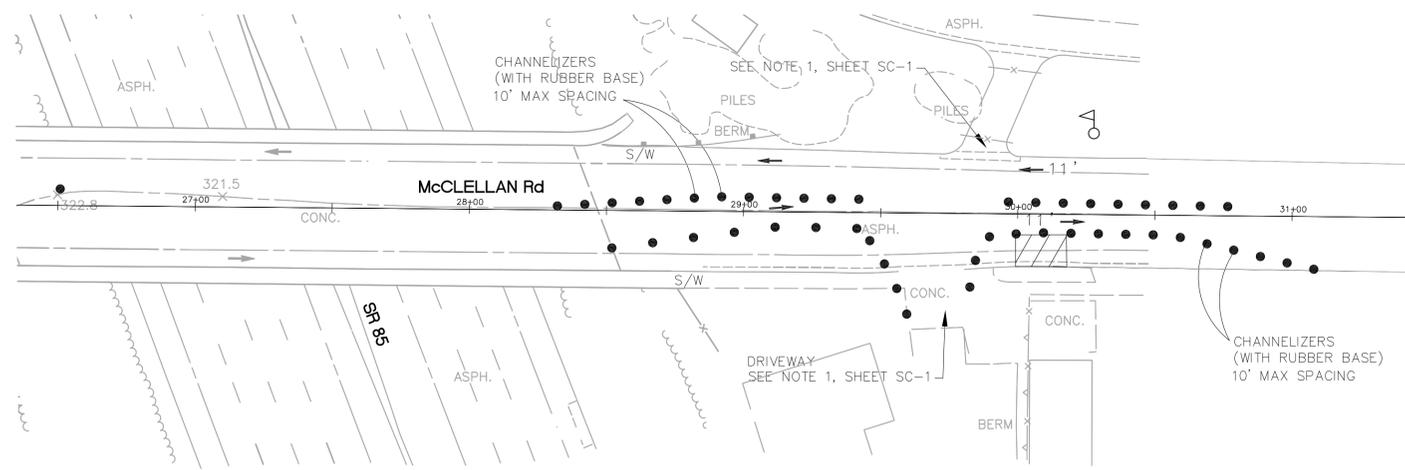
**CUPERTINO**  
City of Cupertino  
Public Works Department  
10300 TORRE AVENUE, CUPERTINO, CA 95014  
(408) 777-3354 FAX (408) 777-3333

REGISTERED CIVIL ENGINEER  
RICHARD TANAKA  
No. 23233  
Exp. 03/31/17  
CIVIL  
STATE OF CALIFORNIA

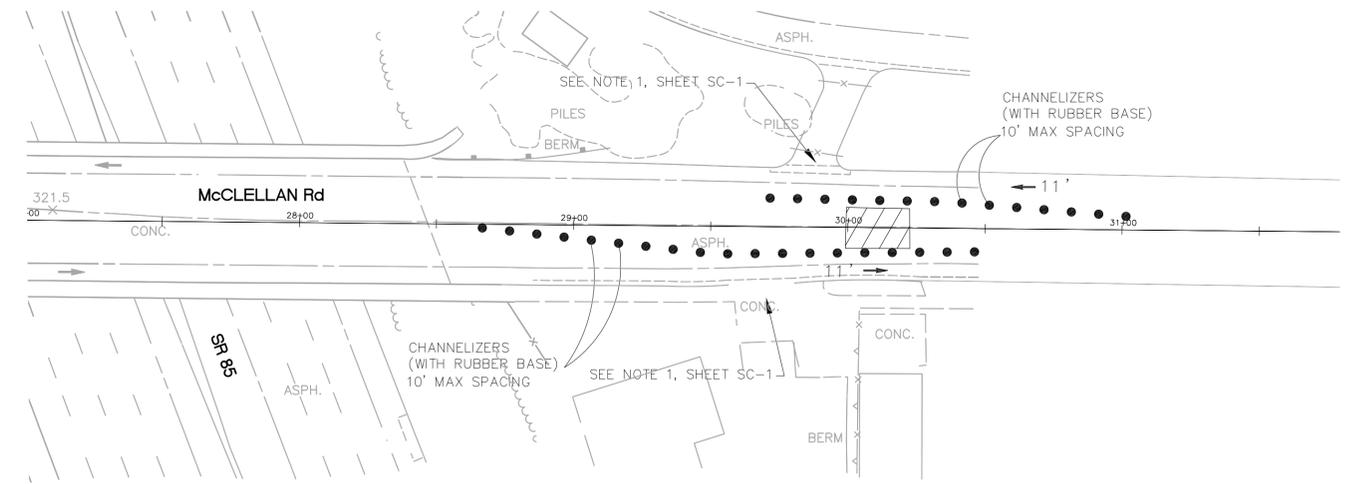
**STAGE CONSTRUCTION**  
**BUBB, ELM, & McCLELLAN ROAD STORM  
DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
CITY OF CUPERTINO

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OF 17 SHEETS  
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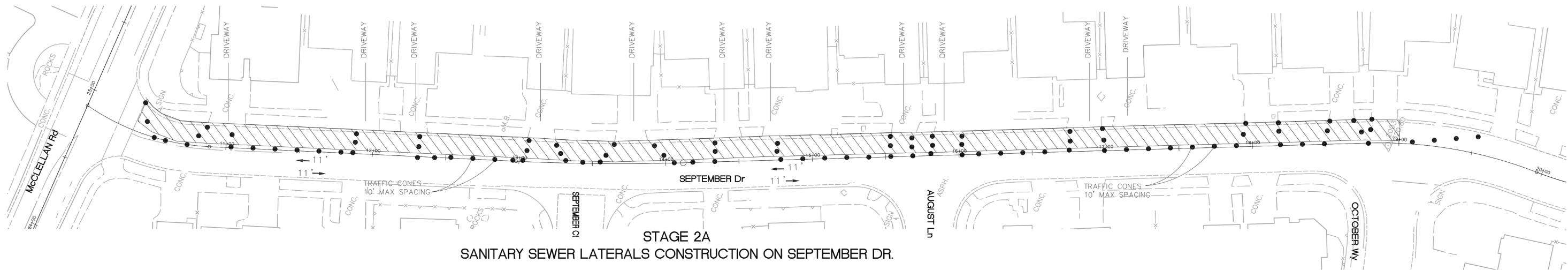




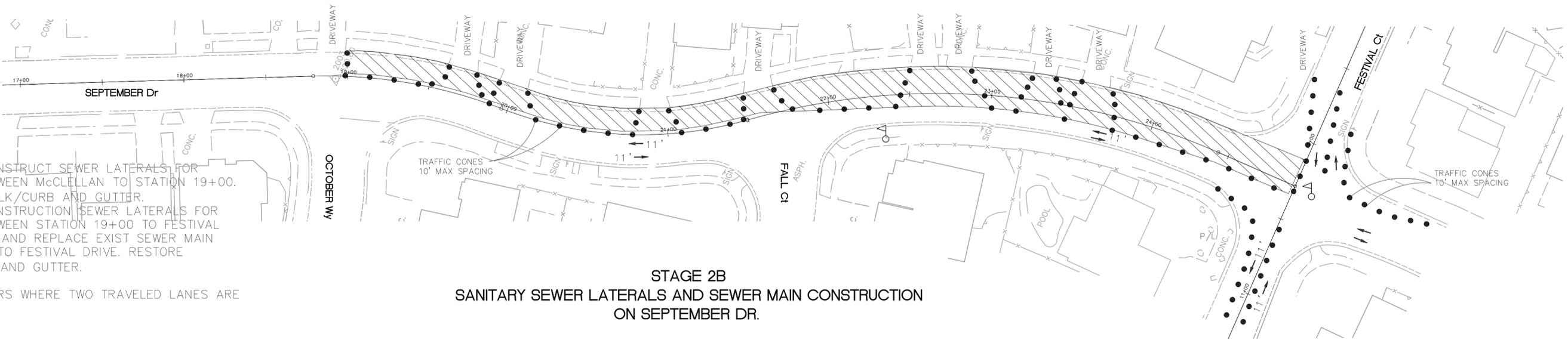
STAGE 1D-1  
SD CONSTRUCTION, EAST OF SR 85



STAGE 1D-2  
SD CONSTRUCTION, EAST OF SR 85



STAGE 2A  
SANITARY SEWER LATERALS CONSTRUCTION ON SEPTEMBER DR.

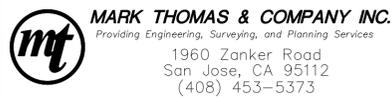


STAGE 2B  
SANITARY SEWER LATERALS AND SEWER MAIN CONSTRUCTION  
ON SEPTEMBER DR.

NOTES

1. ORDER OF WORK
  - a. STAGE 2A - CONSTRUCT SEWER LATERALS FOR PROPERTIES BETWEEN McCLELLAN TO STATION 19+00. RESTORE SIDEWALK/CURB AND GUTTER.
  - b. STAGE 2B - CONSTRUCTION SEWER LATERALS FOR PROPERTIES BETWEEN STATION 19+00 TO FESTIVAL DRIVE. REMOVE AND REPLACE EXIST SEWER MAIN STATION 19+00 TO FESTIVAL DRIVE. RESTORE SIDEWALK/CURB AND GUTTER.
2. TRAFFIC
  - a. PROVIDE FLAGGERS WHERE TWO TRAVELED LANES ARE NOT AVAILABLE.

FOR NOTE AND LEGEND NOT SHOWN, SEE SHEET SC-1

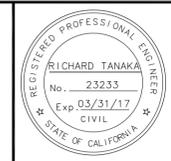


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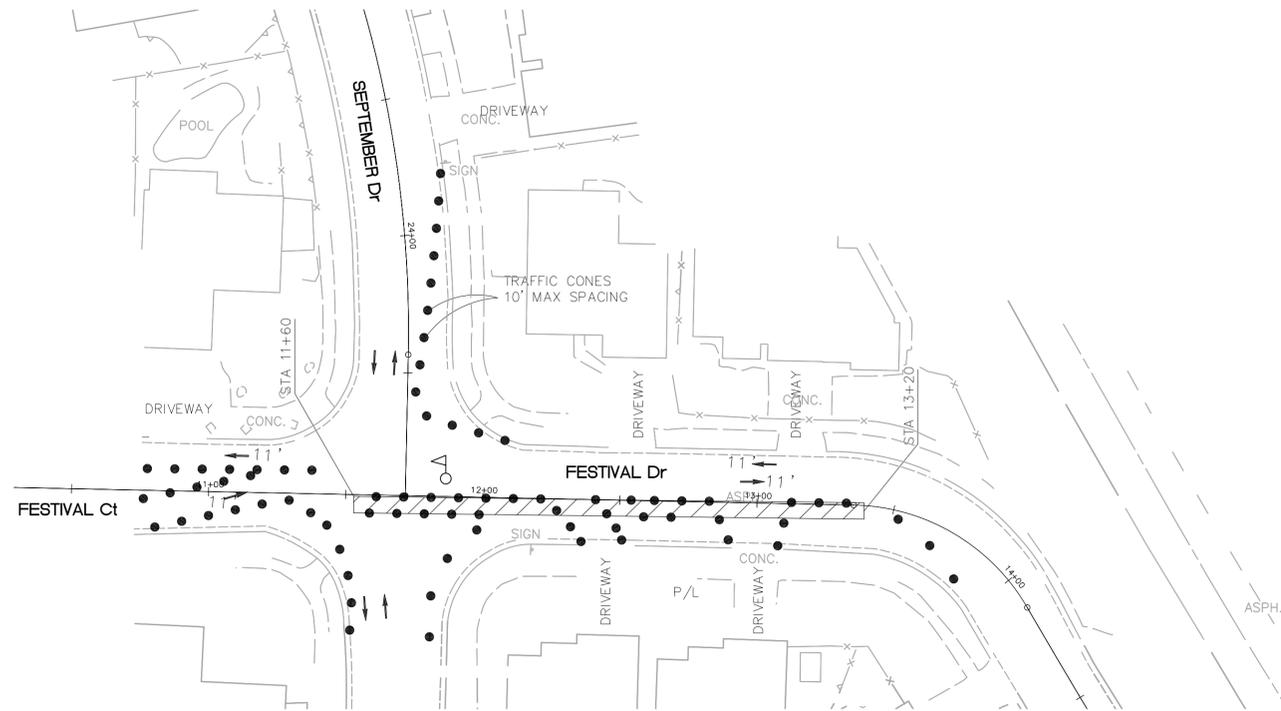


REGISTERED CIVIL ENGINEER  
DATE: 03/30/15

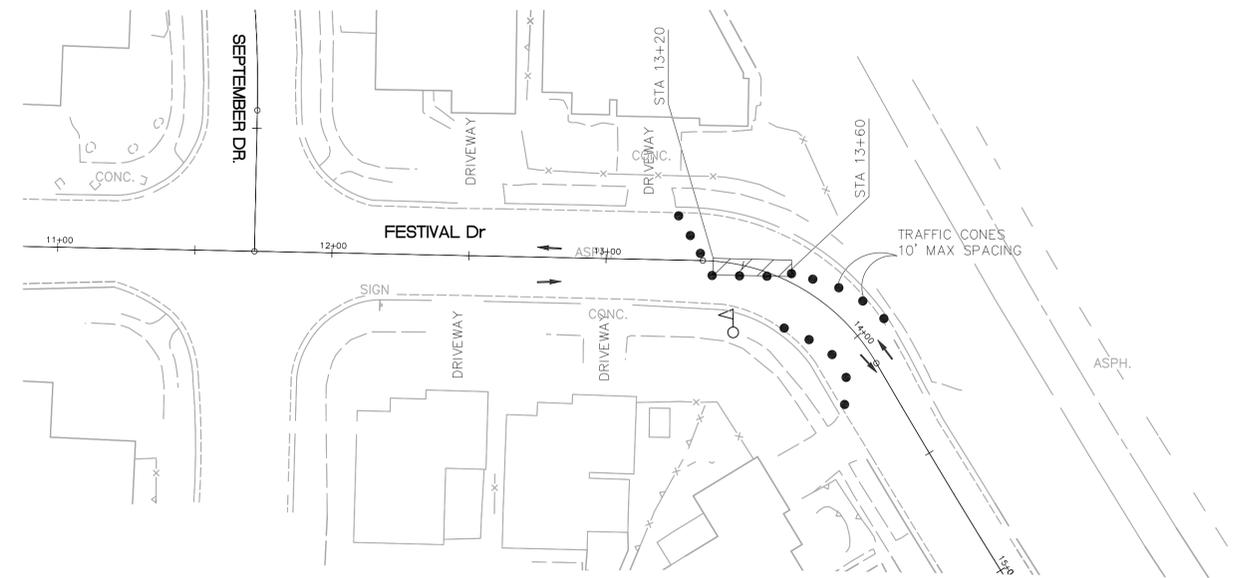
STAGE CONSTRUCTION		
BUBB, ELM, & McCLELLAN ROAD STORM DRAIN/SANITARY SEWER IMPROVEMENT PROJECT CITY OF CUPERTINO		
WORK ORDER No.:	ADVERTISEMENT DATE:	CONTRACT No.:

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OF 17 SHEETS  
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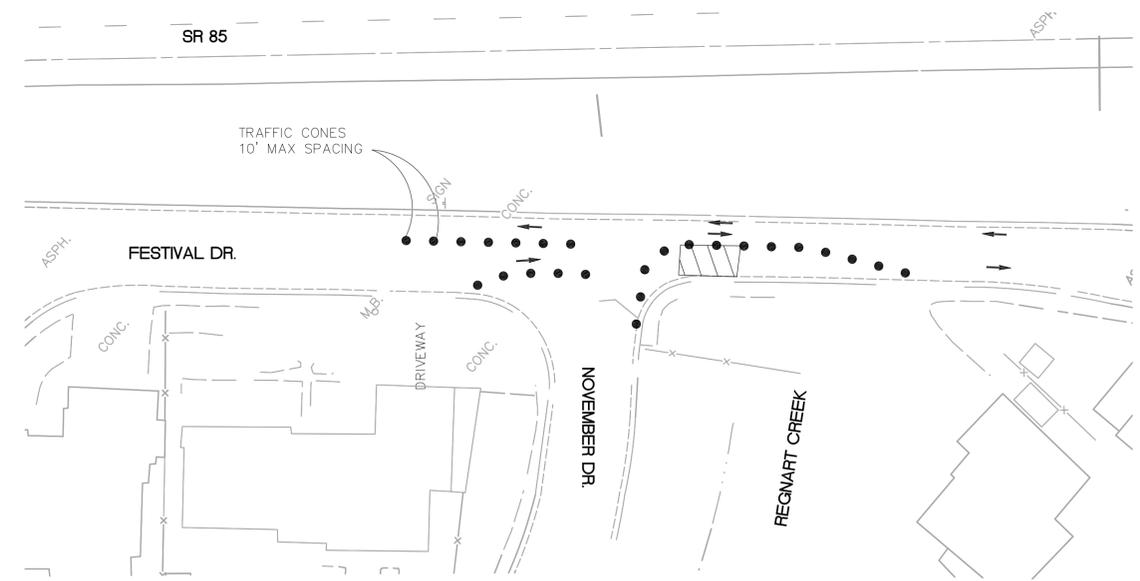




**STAGE 3A**  
STORM DRAIN AND SANITARY LATERAL CONSTRUCTION  
ON FESTIVAL CT.



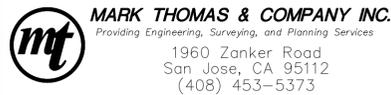
**STAGE 3B**  
SD MANHOLE CONSTRUCTION ON FESTIVAL CT.



**STAGE 3C**  
MANHOLE RESTRICTOR CONSTRUCTION

NOTES

1. ORDER OF WORK
  - a. STAGE 3A - REMOVE EXIST 18" RCP AND CONSTRUCT 36" RCP ON FESTIVAL COURT.
  - b. STAGE 3B - CONSTRUCT SD MANHOLE ON FESTIVAL COURT.
  - c. STAGE 3C - CONSTRUCT MANHOLE RESTRICTOR NEAR REGNART CREEK IN CONCURRENT WITH STAGE 3B.
2. TRAFFIC
  - a. PROVIDE FLAGGERS WHERE TWO TRAVELED LANES ARE NOT AVAILABLE.
  - b. PROVIDE FLAGGERS FOR WORK WITHIN THE INTERSECTION OF SEPTEMBER DRIVE AND FESTIVAL COURT.

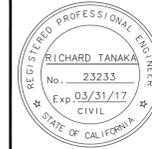


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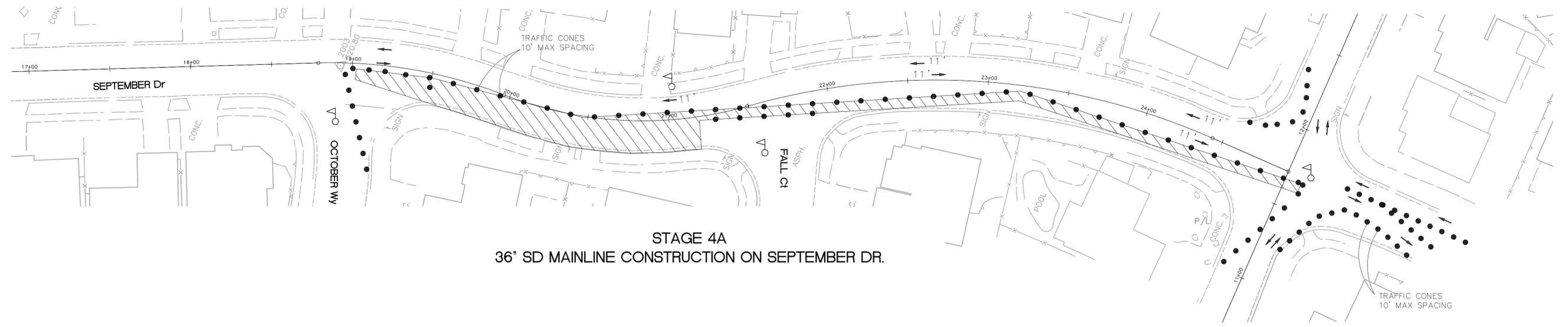
*[Signature]*  
REGISTERED CIVIL ENGINEER  
03/30/15  
DATE

<b>STAGE CONSTRUCTION</b>		
<b>BUBB, ELM, &amp; McCLELLAN ROAD STORM DRAIN/SANITARY SEWER IMPROVEMENT PROJECT</b>		
<b>CITY OF CUPERTINO</b>		
WORK ORDER No.	ADVERTISEMENT DATE:	CONTRACT No.

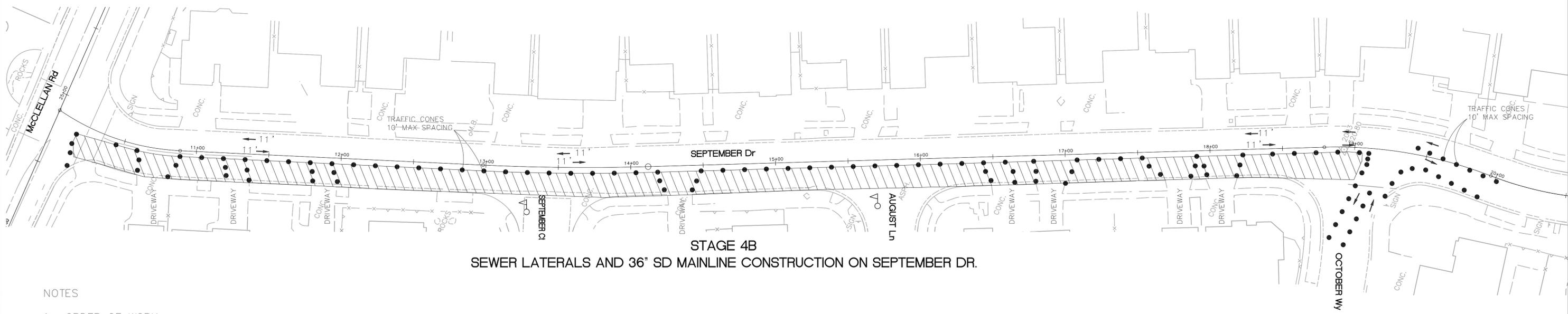
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**16**  
OF 17 SHEETS  
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RELATIVE BORDER SCALE  
IS IN INCHES





STAGE 4A  
36" SD MAINLINE CONSTRUCTION ON SEPTEMBER DR.



STAGE 4B  
SEWER LATERALS AND 36" SD MAINLINE CONSTRUCTION ON SEPTEMBER DR.

NOTES

1. ORDER OF WORK
  - a. STAGE 4A – REMOVE EXIST SD MANHOLE, ABANDON AND REMOVE EXIST 12" RCP, CONSTRUCT 36" SD MAINLINE ON SEPTEMBER DRIVE FROM STAT 19+00 TO FESTIVAL COURT.
  - STAGE 4B – CONSTRUCT SD MAINLINE ON SEPTEMBER DRIVE FROM McCLELLAN TO STAT 19+00.
  - b. STAGE 4B – CONSTRUCT SEWER LATERALS PRIOR TO SD CONSTRUCTION; RESTORE SIDEWALK/CURB AND GUTTER SEWER LATERALS CONSTRUCTION; CONSTRUCT 36" SD MAINLINE ON SEPTEMBER DRIVE FROM McCLELLAN TO STAT 19+00.
2. TRAFFIC
  - a. PROVIDE FLAGGERS WHERE TWO TRAVELED LANES ARE NOT AVAILABLE.
  - b. PROVIDE FLAGGERS WHEN WORK OCCURS ACROSS SEPTEMBER COURT, AUGUST LANE, OCTOBER WAY, AND FALL COURT.

FOR NOTE AND LEGEND NOT SHOWN, SEE SHEET SC-1

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REGISTERED PROFESSIONAL ENGINEER  
 RICHARD TANAKA  
 No. 23233  
 Exp. 03/31/17  
 CIVIL  
 STATE OF CALIFORNIA

REGISTERED CIVIL ENGINEER  
 DATE 03/30/15

STAGE CONSTRUCTION  
**BUBB, ELM, & McCLELLAN ROAD STORM  
 DRAIN/SANITARY SEWER IMPROVEMENT PROJECT**  
 CITY OF CUPERTINO

WORK ORDER No. \_\_\_\_\_ ADVERTISEMENT DATE: \_\_\_\_\_ CONTRACT No. \_\_\_\_\_

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**17**  
 OF 17 SHEETS  
**SC-5**

