

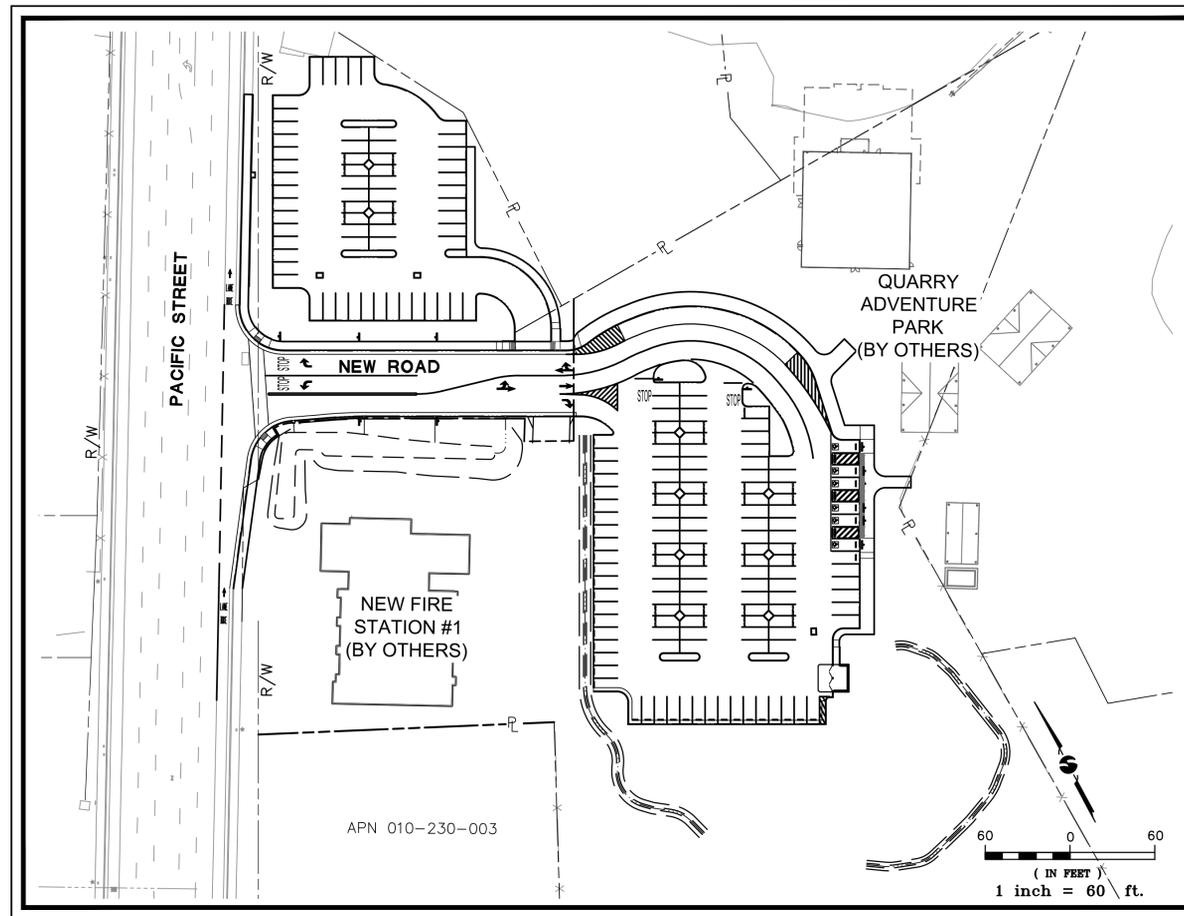
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STATE OF CALIFORNIA  
CITY OF ROCKLIN

PROJECT PLANS FOR CONSTRUCTION  
NEW FIRE STATION ACCESS ROAD  
AND  
PARKING LOTS FOR  
QUARRY ADVENTURE PARK  
IN THE CITY OF ROCKLIN CALIFORNIA

APN 010-170-001 • APN 010-170-026 • APN 010-230-004



PROJECT SITE MAP  
SCALE 1"=60'

PLACER COUNTY WATER AGENCY FACILITIES

PLACER COUNTY WATER AGENCY FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AGENCY'S LATEST REVISED STANDARDS. THE CONTRACTOR SHALL PROVIDE TWO WORKING DAYS' NOTICE TO THE PLACER COUNTY WATER AGENCY INSPECTOR (530-823-4885) PRIOR TO BEGINNING WORK ON WATER FACILITIES AND BY 7:30 A.M. EACH DAY WORK ON WATER FACILITIES OCCURS. THE AGENCY'S APPROVAL OF THESE PLANS IS FOR WATER FACILITIES ONLY. UNDISCOVERED ERRORS AND OMISSIONS SHALL BE CORRECTED BY OTHERS. CONFLICTS WITH OTHER IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF OTHERS.

PLACER COUNTY WATER AGENCY MAP No.

AGENCY APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

(THIS APPROVAL EXPIRES 24 MONTHS AFTER THE ABOVE DATE)

BASIS OF BEARING

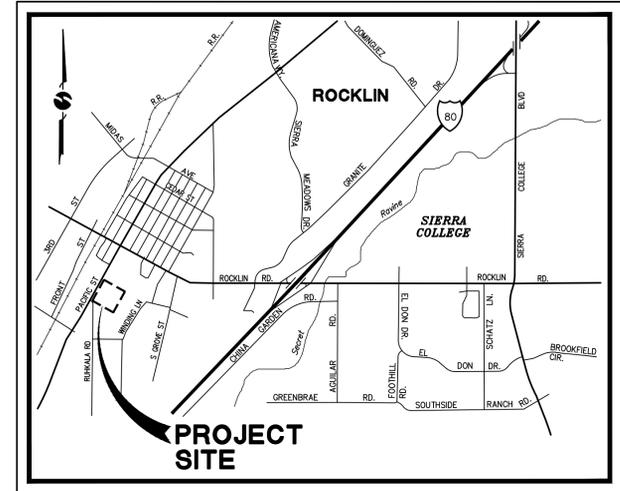
THE BASIS OF BEARINGS OF THIS SURVEY IS IDENTICAL TO THAT RECORD OF SURVEY FILED FOR RECORD AUGUST 6, 1984 IN BOOK 9 OF SURVEYS AT PAGE 103, PLACER COUNTY RECORDS.

ALL COORDINATES ARE ASSUMED, DISTANCES AND AREAS SHOWN HEREON ARE GROUND DISTANCES.

THE VERTICAL DATUM OF THIS SURVEY IS THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), BASED UPON CITY OF ROCKLIN STATION "R 8-16", USC&GS DISK IN ROCK SOUTHWEST OF FARRON STREET AND U.P.R.R. (G 1200). N38°47'09.76", W121°14'26.32", HAVING A PUBLISHED ELEVATION OF 251.21'.

UTILITY REPRESENTATIVES

| UTILITY   | REPRESENTATIVE | PHONE NO.      | UTILITY   | REPRESENTATIVE | PHONE NO.      |
|---|----------------|----------------|---|----------------|----------------|
| GAS: P.G.&E.<br>333 SACRAMENTO ST.<br>AUBURN, CA 95603          | RICH RAVLINO   | (530) 889-3199 | DRAINAGE: CITY OF ROCKLIN<br>4081 ALVIS COURT<br>ROCKLIN, CA 95677        | LYNN TOTH      | (916) 625-5568 |
| ELECTRIC: P.G.&E.<br>333 SACRAMENTO ST.<br>AUBURN, CA 95603     | SHAWN SMITH    | (530) 889-3133 | FIRE: CITY OF ROCKLIN<br>4060 ROCKLIN ROAD<br>ROCKLIN, CA 95677           | JAMES SUMMERS  | (916) 625-5300 |
| WATER: P.C.W.A.<br>144 FERGUSON ROAD<br>AUBURN, CA 95604        | RICHARD WIRTH  | (530) 823-4885 | CABLE T.V.: WAVE BROADBAND<br>4120 CITRUS AVENUE<br>ROCKLIN, CA 95677     | EVELYN CORTEZ  | (916) 315-3211 |
| SEWER: S.P.M.U.D.<br>5807 SPRINGVIEW DRIVE<br>ROCKLIN, CA 95677 | ERIC NIELSEN   | (916) 786-8555 | TELEPHONE: AT&T<br>3545 INDUSTRIAL AVENUE, SUITE 104<br>ROCKLIN, CA 95765 | CAROL PRINCE   | (916) 409-1384 |



VICINITY MAP  
NO SCALE

WDID # \_\_\_\_\_  
EARTHWORK QUANTITIES: 17,565 CY (EXPORT)

|  |            |
|--|------------|
| CITY OF ROCKLIN<br>ENGINEERING DEPARTMENT    |            |
| APPROVED BY:                                 | DATE       |
| CITY ENGINEER                                |            |
| CITY OF ROCKLIN<br>FIRE DEPARTMENT           |            |
| APPROVED BY:                                 | DATE       |
| FIRE CHIEF                                   |            |
| DEPARTMENT OF PUBLIC SERVICES                |            |
| APPROVED BY:                                 | DATE       |
| DIRECTOR                                     |            |
| SOILS REPORT                                 |            |
| COMPANY NAME: WALLACE KUHL & ASSOCIATES, INC |            |
| WKA No. 7886.01                              | 08/15/2008 |
| JOB NUMBER                                   | DATE       |
| PLACER COUNTY WATER AGENCY                   |            |
| APPROVED BY:                                 | DATE       |
| ENGINEER                                     |            |
| SPMUD  |            |
| APPROVED BY:                                 | DATE       |



Know what's below.  
Call before you dig.  
Contractor shall call  
Underground Service Alert at  
811 two working days prior  
to excavation

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS HAVE BEEN PREPARED BY, OR UNDER THE DIRECTION OF, THE UNDERSIGNED ENGINEER. ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION ARE INCLUDED HEREIN WHEN THE PROJECT ENGINEER IS ADVISED IN WRITING OF SUCH CHANGE BY THE OWNER, DEVELOPER, CONTRACTOR OR THE CITY OF ROCKLIN.

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

RCE # \_\_\_\_\_

| NO. | REVISION | DATE |
|-----|----------|------|
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**omni.means**  
ENGINEERING SOLUTIONS  
SACRAMENTO REGION  
1007 N. WASHINGTON ST., SUITE 100  
ROCKLIN, CA 95677  
TEL: (916) 227-1200  
WWW.OMNIMEANS.COM

**TITLE SHEET**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of Rocklin  
4081 Alvis Court  
Rocklin, CA 95677  
(916) 625-5500

REGISTERED PROFESSIONAL ENGINEER  
MARTY MICHAEL  
No. 429836  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

| SCALE    | NO SCALE     |
|----------|--------------|
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM           |
| FILE     | 22277001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

**PROJECT NOTES**

- THE CONTRACTOR SHALL NOT BEGIN ANY WORK SHOWN ON THESE PLANS UNTIL THE CITY ENGINEER'S SIGNATURE OF APPROVAL IS AFFIXED HEREON AND ALL APPLICABLE PERMITS HAVE BEEN OBTAINED.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY, OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY, OWNER OR ENGINEER.
- THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION, HE SHALL CONTACT ALL UTILITY COMPANIES FOR VERIFICATION AT THE CONSTRUCTION SITE OF THE LOCATIONS OF ALL UNDERGROUND FACILITIES WHERE SUCH FACILITIES MAY CONFLICT WITH PLACEMENT OF IMPROVEMENTS SHOWN ON THIS PLAN. CALL "Underground Service alert" at 811 (phone 800-227-2600) or through the website at <http://usanorth811.org> 48 hours in advance PRIOR TO ANY EXCAVATION.
- THE LOCATIONS OF ALL UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES; HOWEVER, THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING FACILITIES SHOWN HEREON OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH THE CONTRACTOR MAY DISCOVER, BUT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND IMMEDIATELY NOTIFY THE ENGINEER IF ANY SUCH FACILITIES INTERFERE WITH THE CONSTRUCTION OF THE IMPROVEMENTS. THE CONTRACTOR SHALL STOP WORK UNTIL MITIGATIONS CAN BE MADE. ANY COSTS INCURRED RESULTING FROM CONTRACTOR'S FAILURE TO STOP AS DIRECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL MATERIALS, METHODS, AND WORKMANSHIP SHALL CONFORM TO THE SPECIFICATION OF THE AGENCIES INVOLVED AND ALL WORK IS SUBJECT TO THE APPROVAL OF THEIR DIRECTOR OR AUTHORIZED REPRESENTATIVE.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF ROCKLIN'S PUBLIC SERVICES INSPECTORS MON.-FRI. 8:00 A.M. TO 4:00 P.M. AT (916) 625-5500 FOR A PRECONSTRUCTION MEETING 48 HOURS IN ADVANCE OF STARTING ANY CONSTRUCTION ACTIVITIES. PLACER COUNTY WATER AGENCY AND SOUTH PLACER MUNICIPAL UTILITY DISTRICT REQUIRE AT LEAST 48-HOURS PRIOR TO ANY CONSTRUCTION REQUESTS FOR INSPECTION OF PUBLIC FACILITIES. THEREFORE, NOTICE SHALL BE GIVEN 48-HOURS IN ADVANCE AND BE PERFORMED BY THE AGENCY'S DESIGNATED AGENT.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY ENCROACHMENT PERMITS AND SHALL POSSESS APPROVED PLANS PRIOR TO BEGINNING OF CONSTRUCTION. A SET OF SIGNED AND APPROVED PLANS ARE TO BE ON THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR SHALL MAINTAIN THE EXISTING PUBLIC AND PRIVATE IMPROVEMENT WITHIN THE WORK AREA AND SHALL ADEQUATELY BARRICADE THE PROJECT SITE TO KEEP THE GENERAL PUBLIC FROM THE SITE. ANY IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR.
- THE CONTRACTOR MUST EXPOSE THE END OF EXISTING GRAVITY LINES FOR THE SURVEYOR TO VERIFY LOCATION AND DEPTH OF FACILITIES PRIOR TO CONNECTION OF PROPOSED UTILITY. THE CONTRACTOR SHALL INCUR ALL COSTS FOR SUCH EXCAVATION.
- THE CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THAT OF OTHERS ON THE SITE. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY, WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR ON THE JOB SITE DURING ALL WORKING HOURS.
- CONTRACTOR SHALL BE IN RECEIPT OF THE CITY APPROVED PLANS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY UTILITY COMPANIES INVOLVED IN THE DEVELOPMENT PRIOR TO BEGINNING OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND/OR OTHER SURVEY MONUMENTS AND SHALL NOTIFY CITY OF ROCKLIN DEPARTMENT OF PUBLIC SERVICES OF ANY DAMAGED OR REMOVED CITY, STATE, OR BUREAU MONUMENTS. CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ANY DAMAGED OR REMOVED MONUMENTS.
- CONTRACTOR SHALL NOTIFY DEPARTMENT OF PUBLIC SERVICES UPON APPLICATION FOR PERMIT AND PAYMENT OF REQUIRED FEE.
- THE CONTRACTOR SHALL VERIFY ALL STREETS NAMES AND THEIR CORRECT SPELLING WITH THE FIRE DEPARTMENT AND BUILDING DIVISION BEFORE ORDERING STREET SIGNS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING HIS OPERATION ENTIRELY OUTSIDE OF ANY FLOODPLAIN BOUNDARIES. FLOODPLAIN BOUNDARIES SHALL BE CLEARLY DELINEATED IN THE FIELD WITH ORANGE ESA FENCING AND SIX FOOT (6') STAKES TEN FEET (10') OC PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING HIS OPERATION ENTIRELY OUTSIDE OF ANY "NO GRADING AREA." THESE AREAS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO CONSTRUCTION.
- WHERE WORK IS BEING DONE IN AN OFFSITE EASEMENT THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER 48 HOURS PRIOR TO COMMENCING WORK.

**STREETS**

- PLACEMENT OF PROPOSED PUBLIC IMPROVEMENTS AND PROPOSED ONSITE IMPROVEMENTS SHALL NOT BE LIMITED TO THESE PLANS, BUT BE BUILT IN ACCORDANCE WITH THE CITY OF ROCKLIN IMPROVEMENT STANDARDS AND TO THE SATISFACTION OF THE CITY ENGINEER.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED AS SHOWN ON PLANS.
- ALL UTILITY TRENCHING TO BE DONE AS PER TRENCH DETAILS.
- ALL DROP INLETS SHALL BE TYPE "B" AS SHOWN IN THE CITY OF ROCKLIN IMPROVEMENT STANDARDS, DRAWING 4-2, EXCEPT AS NOTED.
- CONSTRUCT SIDEWALK RAMPS PER LATEST CALTRANS STANDARDS.

- CONSTRUCT MONUMENT BOX PER CITY OF ROCKLIN IMPROVEMENTS, STANDARD DRAWINGS 3-34.
- STOP SIGNS, THERMOPLASTIC STOP BARS, AND THE THERMOPLASTIC WORD "STOP" SHALL CONFORM TO CALTRANS STANDARDS (R1, 30").
- THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER WORK TO ASSURE THAT ALL UNDERGROUND CONDUITS AND UTILITIES ARE INSTALLED PRIOR TO PAVING. ALL PIPES IN PAVED AREAS SHELL BE PLACED PRIOR TO PLACING AGGREGATE BASE. NO CURB, GUTTER, SIDEWALK FOR AGGREGATE BASE SHALL BE PLACED UNTIL ALL UNDERGROUND UTILITIES ARE INSTALLED.
- EXISTING A.C. SURFACE SHALL BE CUT TO A NEAT STRAIGHT LINE, PARALLEL WITH THE STREET CENTERLINE AND THE EXPOSED EDGE AND VERTICAL EDGE OF GUTTER LIP SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE CONTRACTOR SHALL PREVENT SAW CUT MATERIAL FROM ENTERING DRAINAGE STRUCTURES, WATERWAYS, DRAINAGE SWALES, ETC. MATERIAL SHALL BE GRADED, RECOMPACTED, AND RESEALED PRIOR TO PAVING. ANY CONCRETE, A.C., TREES, FENCES, AND/OR OTHER OBSTRUCTIONS REQUIRED TO CONSTRUCT THE IMPROVEMENT SHALL BE REMOVED PRIOR TO PAVING.
- TRAFFIC CONTROL PROCEDURES SHALL CONFORM TO THE MOST RECENT EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD). THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY OF ROCKLIN FOR THE METHOD OF TRAFFIC CONTROL PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR SIDEWALKS DURING THE CONSTRUCTION PHASE. IF THE CITY FINDS A SIGNIFICANT AMOUNT OF STREET DAMAGE, AN OVERLAY OF THE ENTIRE PROJECT OR STREET IN QUESTION WILL BE REQUIRED BEFORE A NOTICE OF COMPLETION IS PROCESSED. THE CONTRACTOR, DEVELOPER AND/OR BUILDER ARE TOTALLY RESPONSIBLE FOR THE QUALITY OF WORKMANSHIP ON THE PROJECT.
- UTILITIES:**
  - SEWER: SO. PLACER MUNICIPAL UTILITY DISTRICT (916) 786-8522
  - WATER: PLACER COUNTY WATER AGENCY (530) 823-4886
  - STORM DRAIN, TELECOMMUNICATION CONDUIT STREET LIGHTS & TRAFFIC SIGNALS: CITY OF ROCKLIN (PUBLIC WORKS) (916) 625-5500
  - ELECTRICITY & NATURAL GAS: PACIFIC GAS & ELECTRIC (530) 320-0149
  - TELEPHONE: ATT (916) 409-1384
  - CABLE T.V.: WAVE BROADBAND (916) 630-7180
  - CONSOLIDATED (916) 786-1217
- SEE INDIVIDUAL AGENCIES FOR SIZE, TYPE, AND LOCATION OF THEIR PROPOSED FACILITIES.

**EARTHWORK AND GRADING**

- THE CONTRACTOR SHALL CONTACT THE CITY OF ROCKLIN PUBLIC SERVICES, 48 HOURS PRIOR TO THE START OF EARTHWORK AND GRADING CONSTRUCTION.
- GRADING SHALL NOT OCCUR ON THE PROJECT AREA UNTIL ALL EXISTING UTILITIES AND TREES AND SENSITIVE AREAS TO BE SAVED ARE ADEQUATELY PROTECTED PER THE CITY OF ROCKLIN CONSTRUCTION SPECIFICATIONS.
- ALL COMPACTION TESTING SHALL BE PERFORMED BY THE CITY OR ITS DESIGNATED AGENT AND BE PAID FOR BY THE CITY (OR CONTRACTOR IN CASE OF RETESTING). TESTS WITHIN THE RIGHT-OF-WAY SHALL BE APPROVED BY THE CITY OF ROCKLIN AND ALL TESTS OUTSIDE THE RIGHT-OF-WAY SHALL BE CERTIFIED BY THE SOILS ENGINEER FOR THE PROJECT.
- ALL UNSUITABLE AND SURPLUS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS THE ENGINEER SPECIFIES OTHERWISE.
- UTILITY TRENCHING TO BE COMPLETED WITH FINAL EARTHWORK. THE PROJECT WILL BE TEMPORARILY SUSPENDED PER SEC 8-1.05 FOR ALLOWING PG&E AND WAVE BROADBAND TO INSTALL THEIR RESPECTIVE FACILITIES.
- THE CONTRACTOR SHALL AT ALL TIMES CONFORM TO THE RECOMMENDATIONS FROM THE CITY OF ROCKLIN ON DUST CONTROL, AND ANY REQUIREMENTS OF PLACER COUNTY AIR POLLUTION CONTROL DISTRICT. AREAS SURROUNDING THE WORK SHALL BE KEPT CLEAN AND RETURNED TO ORIGINAL CONDITION UPON COMPLETION OF CONTRACT. GRADING SHALL NOT OCCUR WHEN WIND SPEED EXCEEDS 10 MPH CONTINUOUSLY FOR MORE THAN 1 HOUR.
- CONTRACTOR SHALL APPLY EROSION CONTROL HYDROSEEDING TO ALL GRADED OR DISTURBED SOILS WITHIN THE WORK AREA AFTER COMPLETION OF IMPROVEMENTS OR AS SOON AS PRACTICAL AFTER GRADING TO REDUCE DUST AND EROSION POTENTIAL. STRAW OR HYDROMULCHING SHALL BE COMBINED WITH THE SEEDING ON SLOPES EQUAL TO OR GREATER THAN 10:1 AND PLACED PRIOR TO COMPLETION OF PROJECT IF DEEMED NECESSARY FOR CONTROLLING SOIL EROSION.
- THE CONTRACTOR SHALL DO THE FOLLOWING IF GRADING AND CLEARING IMPROVEMENTS ARE INCOMPLETE BY OCTOBER 1ST:
  - INSTALL EROSION PROTECTION ON SLOPES 10:1 OR STEEPER AND SWALES WITH SLOPES 2% OR GREATER
  - PREVENT SEDIMENT FROM LEAVING THE PROJECT AREA

- GRADE GUTTER SAG POINTS TO DRAIN. PROVIDE FOR DRAINAGE FROM ENDS OF IMPROVEMENTS
- PREVENT SEDIMENTATION IN EXISTING STORM DRAIN SYSTEM AND CLEAN PIPES AS PER SPECIFICATION S662
- SEAL OFF ALL SANITARY SEWER CONNECTIONS TO EXISTING SYSTEMS

THE CONTRACTOR SHALL MAINTAIN WINTERIZATION FACILITIES AT ALL TIMES UNTIL THE CITY ACCEPTS THE ROAD IMPROVEMENTS

- PRIOR TO GRADING, A RAPTOR SURVEY SHALL BE DONE. NO CONSTRUCTION ACTIVITIES ARE ALLOWED WITHIN .25 MILES OF ANY IDENTIFIED RAPTOR NESTS BETWEEN THE DATES OF FEBRUARY 1ST THRU AUGUST 31ST AS APPROVED BY DIRECTOR.
- APPROX. QUANTITY OF EARTHWORK: 17,565 CY CUT.
- THOSE ENGAGED IN CONSTRUCTION ACTIVITY SHALL COMPLY WITH THE CITY OF ROCKLIN CONSTRUCTION NOISE COMPATIBILITY GUIDELINES, INCLUDING RESTRICTING CONSTRUCTION NOISE GENERATING ACTIVITIES WITHIN OR NEAR RESIDENTIAL AREAS TO BETWEEN 7:00 AM AND 7:00 PM ON WEEKDAYS AND 8:00 AM AND 7:00 PM ON THE WEEKENDS TO THE SATISFACTION OF THE PUBLIC SERVICES DIRECTOR OR BUILDING OFFICIAL.

**STRIPING**

- ALL EXISTING PAVEMENT MARKINGS TO BE REMOVED SHALL BE REMOVED BY GRINDING, AND A SURFACE TREATMENT MAY BE REQUIRED BY THE CITY.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ARE TO CONFORM TO THE MOST RECENT EDITION OF THE CALTRANS STANDARD SPECIFICATIONS AND PLANS.

**CONSTRUCTION STAKING/MONUMENTION**

- NO WORK SHALL COMMENCE UNTIL STAKING IS PROVIDED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL MONUMENTS AND OTHER SURVEY MARKERS.
- ALL SURVEY MONUMENTS SHALL BE SET IN ACCORDANCE WITH THE CITY OF ROCKLIN SUBDIVISION ORDINANCE PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF PUBLIC IMPROVEMENTS. MONUMENT BOXES SHALL BE FROM "IRONSIDES" 1B-BODY WITH IL-LID MARKED "MONUMENT" OR APPROVED EQUAL.

**LANDSCAPING**

- RAIN BIRD® ESP-LX SERIES COMMERCIAL CONTROLLER WITH FLOW SMART MODULE WITH LEARN FLOW UTILITY AND FLOW USAGE TOTALIZER.
- ALL CONTROLLERS SHALL HAVE AN NCC -3G CELLULAR CARTRIDGE WITH EXTERNAL ANTENNA USED FOR DIRECT COMMUNICATION WITH TUE IQ CENTRAL COMPUTER.
- NO CO-MINGLING OF ONSITE AND CITY OF ROCKLIN IRRIGATION AND LANDSCAPE.
- ALL IRRIGATION AND LANDSCAPE SUBMITTALS SHALL BE SENT TO THE CITY OF ROCKLIN INSPECTOR 916-625-5577.
- ALL IRRIGATION MAINLINE AND LATERALS SHALL BE SCHEDULE 40 PVC OR GREATER. NO CLASS 200.
- ALL BACKFLOWS SHALL BE A WILKINS 975XL INSTALLED PER PCWA SPECIFICATIONS WITH AN INSULATED PLACER WATER WORKS ENCLOSURE.
- ALL IRRIGATION AND LANDSCAPE SHALL CONFORM TO THE LATEST CALIFORNIA MWEL0.

**STORM DRAINS**

STORM DRAIN REQUIREMENTS SHALL BE PER THE CITY OF ROCKLIN STANDARD SPECIFICATIONS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. MINIMUM OF 12" DIAMETER PIPE WITHIN THE CITY RIGHT OF WAY AND MINIMUM 8" DIAMETER PIPE ON PRIVATE PROPERTY.

PIPE ALTERNATIVES SHALL BE:

- CONCRETE PIPE C76 REINFORCED CONCRETE PIPE
- ASTM-12" IS SMALLEST
- ASTM-C76 CLASS 5 (UNLESS OTHERWISE SHOWN ON PLANS)
- HDPE (PER CALTRANS STANDARD, DIVISION VII, MOST RECENT EDITION)

THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL NEW DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.

EXISTING STORM DRAIN FACILITIES SHALL BE EXPOSED AND INVERT VERIFIED PRIOR TO PLACEMENT OF PIPE. ALL CONSTRUCTION SHALL CONFORM TO MANUFACTURERS SPECIFICATIONS AND TO REQUIREMENTS OF THE CITY OF ROCKLIN STANDARD SPECIFICATIONS.

**CONFINED SPACE ENTRY (STORM DRAIN MANHOLES AND TRENCHING):**

IT IS THE PROJECT OWNER/DEVELOPER'S RESPONSIBILITY AS HOST EMPLOYER TO HAVE A CONFINED SPACE ENTRY PROGRAM IN COMPLIANCE WITH THE REQUIREMENTS OF SECTIONS 5156-5159 OF TITLE 8, GENERAL INDUSTRIAL SAFETY ORDERS, AND CALIFORNIA CODE OF REGULATIONS. CITY OF ROCKLIN EXISTING MANHOLES ARE "PERMIT REQUIRED" CONFINED SPACES. THE HOST EMPLOYER'S CONTRACTOR MUST STRICTLY CONFORM TO THE CITY OF ROCKLIN PERMIT REQUIRED CONFINED SPACE ENTRY PROGRAM IN ENTERING ANY CITY OF ROCKLIN OWNED MANHOLE. REFER TO GS7-1.06.

A "NO DUMPING" STORM DRAIN MESSAGE SHALL BE PLACED ADJACENT TO ALL DRAIN INLETS IN ACCORDANCE WITH CITY STANDARD DRAWING 4-24.

**SEWER**

CONTACT SOUTH PLACER MUNICIPAL UTILITY DISTRICT FOR REQUIRED NOTES PERTAINING TO THE SEWER SYSTEM.

**WATER**

CONTACT PLACER COUNTY WATER AGENCY FOR REQUIRED NOTES PERTAINING TO THE WATER SYSTEM.

**BIOLOGICAL RESOURCES**

PRIOR TO GRADING OR CONSTRUCTION ACTIVITIES, THE OPEN SPACE/WETLAND/RIPARIAN AREAS SHALL BE FENCED WITH ORANGE CONSTRUCTION FENCING SUCH THAT THE FENCING SEPARATES THE PROJECT SITE FROM THE OPEN SPACE/WETLAND/RIPARIAN AREAS. THE FENCING SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY ENGINEER AND SHALL REMAIN IN PLACE DURING ALL CONSTRUCTION ACTIVITIES.

**CULTURAL RESOURCES**

IF EVIDENCE OF ARCHEOLOGICAL OR PALEONTOLOGICAL SITE IS UNCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN 100 FT OF THE FIND AND THE CITY OF ROCKLIN ENVIRONMENTAL SERVICES DIVISION SHALL BE IMMEDIATELY NOTIFIED. A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST SHALL BE RETAINED AT THE EXPENSE OF THE DEVELOPER/CITY TO CONDUCT AN ON-SITE EVALUATION AND PROVIDE RECOMMENDATIONS FOR REMOVAL AND/OR PRESERVATION. WORK ON THE SITE SHALL NOT RESUME UNTIL THE ARCHAEOLOGIST OR PALEONTOLOGIST HAS HAD REASONABLE TIME TO CONDUCT AN EXAMINATION AND IMPLEMENT MITIGATION MEASURES DEEMED APPROPRIATE AND NECESSARY BY THE ENVIRONMENTAL SERVICES DIVISION TO REDUCE IMPACTS TO A LESS THAN SIGNIFICANT LEVEL.

EVIDENCE OF HUMAN BURIAL OR SCATTERED HUMAN REMAINS RELATED TO PRE-HISTORIC OCCUPATION OF THE AREA COULD BE INADVERTENTLY ENCOUNTERED ANYWHERE WITHIN THE PROJECT AREA DURING CONSTRUCTION ACTIVITY OR OTHER ACTIONS INVOLVING DISTURBANCE TO THE GROUND SURFACE AND SUBSURFACE COMPONENTS. IN THE EVENT OF SUCH AN INADVERTENT DISCOVERY, WORK SHALL BE HALTED WITHIN 100 FT OF THE FIND AND THE CITY OF ROCKLIN ENVIRONMENTAL SERVICES DIVISION AND THE COUNTY CORONER SHALL BE IMMEDIATELY NOTIFIED AND CONSULTED, PER STATE LAW.

**AIR QUALITY**

PRIOR TO ANY GRADING OR CONSTRUCTION ACTIVITY, A DUST CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER AND THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT. THE DUST CONTROL PLAN SHALL SPECIFY MEASURES TO REDUCE DUST POLLUTION DURING ALL PHASES OF CONSTRUCTION.

**PLACER COUNTY WATER AGENCY NOTES:**

**WATER FACILITIES**

- PLACER COUNTY WATER AGENCY INSPECTOR - PHONE (530) 823-4885. PCWA MAP No. 25-D-10.
- WATER LINES AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AGENCY'S LATEST REVISED SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT PLACER COUNTY WATER AGENCY INSPECTOR FORTY EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF INITIAL WATER LINE CONSTRUCTION, AND BY 7:30 A.M. EACH DAY WORK ON WATER INSTALLATION OCCURS. THESE PLANS ARE APPROVED FOR USE FOR WATERLINE IMPROVEMENTS ONLY. CONFLICTS WITH OTHER IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF OTHERS.
- ROCKLIN PRESSURE ZONE, HGL = 440'. PER PCWA, THE AVERAGE PRESSURE IS 70 PSI BUT VARIES 10 PSI IN EITHER DIRECTION.
- IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE, SERVICES WITH MORE THAN 80 psi STATIC PRESSURE MUST BE EQUIPPED WITH A PRESSURE REGULATOR SET TO 60 psi MAXIMUM AND INSTALLED ON THE CUSTOMER'S SIDE OF THE METER. THE REGULATOR SHALL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.
- RADIUSING OF D.I.P. PIPE TO BE ACCOMPLISHED BY PULLING PIPE AT JOINTS AT A MAXIMUM OF 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE DEFLECTION.
- JOINT DEFLECTIONS AND RADIUSING OR BENDING OF PVC PIPE IS NOT ALLOWED. ANGLE FITTINGS REQUIRED AT ALL DEFLECTIONS OF PVC PIPE.
- THE CONNECTIONS OF THE NEW 12" WATERLINE TO THE EXISTING 10" WATERLINE MAY REQUIRE A WATER OUTAGE. BOTH TIE INS SHALL BE COMPLETED DURING A SINGLE WATER OUTAGE. A SCHEDULED OUTAGE REQUIRES A MINIMUM OF 10 WORKING DAYS ADVANCE NOTICE TO PCWA OF THE REQUESTED TIME AND DATE. OUTAGES MAY BE SCHEDULED ON TUESDAYS, WEDNESDAYS OR THURSDAYS BETWEEN 7 A.M. AND 4 P.M. THESE RESTRICTIONS MAY BE ALTERED BY PCWA AT ITS SOLE DISCRETION.



Know what's BELOW. Call before you dig.

Contractor shall call Underground Service Alert at 811 two working days prior to excavation

|          |  |
|----------|--|
| DATE     |  |
| REVISION |  |
| NO.      |  |

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SAN FRANCISCO  
SAN JOSE  
SAN LUIS OBISPO  
SAN MATEO  
SAN RAFAEL

**GENERAL NOTES**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of Rocklin  
4091 Ave Court  
Rocklin, CA 95667  
(916) 625-5500

**811**  
Know what's BELOW. Call before you dig.

Contractor shall call Underground Service Alert at 811 two working days prior to excavation

|          |              |
|----------|--------------|
| SCALE    | NO SCALE     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM           |
| FILE     | 22277001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

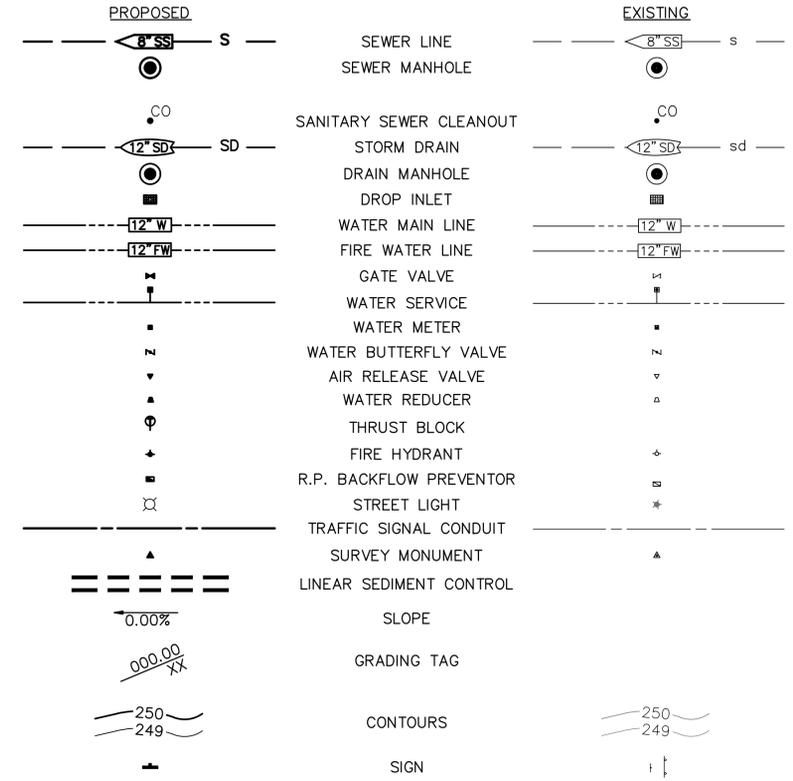
**GN1**

2 OF 44

**ABBREVIATIONS:**

|             |                                    |         |                                    |          |                           |
|-------------|------------------------------------|---------|------------------------------------|----------|---------------------------|
| AB          | AGGREGATE BASE                     | FB      | FLAT BAR                           | PC       | POINT OF CURVATURE        |
| AC          | ASPHALT CONCRETE                   | FG      | FINISHED GRADE                     | PG       | PROFILE GRADE             |
| ACI         | AMERICAN CONCRETE INSTITUTE        | FL      | FLOW LINE                          | PI       | POINT OF INTERSECTION     |
| APP, APPROX | APPROXIMATE                        | FO      | FIBER OPTIC CABLE                  | PL, P    | PLATE                     |
| <D          | ANGLE                              | FOC     | FACE OF CURB                       | PL       | PROPERTY LINE             |
| BC          | BEGIN CURVE                        | FT, (') | FOOT OR FEET                       | PP       | POWER POLE                |
| BCR         | BEGIN CURVE RETURN                 | FTG     | FOOTING                            | PPB      | PED PUSH BUTTON           |
| Beg         | BEGIN                              | FW      | FIRE WATER LINE                    | PSI      | POUNDS PER SQUARE INCH    |
| BEW         | BACK EDGE OF WALK                  | GA      | GAGE                               | PVC      | POLYVINYL CHLORIDE        |
| BM          | BENCHMARK                          | GB      | GRADE BREAK                        | R, RAD   | RADIUS                    |
| BF          | BOTTOM FACE                        | GALV    | GALVANIZED                         | RC       | RELATIVE COMPACTION       |
| BOC         | BACK OF CURB                       | GL      | GROUND LINE                        | RCP      | REINFORCED CONCRETE PIPE  |
| C-          | STREET LIGHT NUMBER                | GP      | GRADING PLANE                      | REINF    | REINFORCING               |
| CD          | CONTROLLED DENSITY FILL            | H       | HEIGHT                             | Rem      | REMOVE                    |
| CFS         | CUBIC FEET (FOOT)PER SECOND        | HDD     | HORIZONTAL DIRECTIONAL DRILLING    | RP       | REDUCED PRESSURE          |
| CKT         | CIRCUIT                            | HMA     | HOT MIX ASPHALT                    | Rt       | RIGHT                     |
| CH          | CHORD                              | HORIZ   | HORIZONTAL                         | RT       | RETAINING WALL            |
| CIPP        | CURED-IN-PLACE PIPE                | HP      | HINGE POINT                        | ROW, R/W | RIGHT OF WAY              |
| CITY        | CITY OF ROCKLIN                    | ID      | INSIDE DIAMETER                    | S        | SLOPE, SEWER              |
| CO          | SANITARY SEWER CLEAN OUT           | IF      | INSIDE FACE                        | SCH      | SCHEDULE                  |
| CONC        | CONCRETE                           | IN, (") | INCH                               | SD       | STORM DRAIN               |
| CONST       | CONSTRUCTION                       | Inv     | INVERT                             | SECT     | SECTION                   |
| CONT        | CONTINUOUS                         | ISA     | INTERNATIONAL SYMBOL ACCESSIBILITY | SF       | SQUARE FEET               |
| CJ          | CONSTRUCTION JOINT                 | JP      | JOINT UTILITY POLE                 | SHT      | SHEET                     |
| CL, C       | CENTERLINE                         | JT      | JOINT                              | SIG      | SIGNAL                    |
| CLR         | CLEAR                              | L       | LENGTH                             | SPEC     | SPECIFICATIONS            |
| CMP         | CORRUGATED METAL PIPE              | LF      | LINEAL FEET                        | SS       | SANITARY SEWER            |
| CP          | CONCRETE PIPE                      | LL      | LIMIT LINE                         | SSCO     | SANITARY SEWER CLEAN OUT  |
| CSP         | CORRUGATED STEEL PIPE              | LOC     | LOCATION                           | STA      | STATION                   |
| CW          | CROSSWALK                          | Lt      | LEFT                               | STR      | STRUCTURE                 |
| D           | STORM DRAIN                        | LUM     | LUMINAIRE                          | SWQ      | STORM WATER QUALITY       |
| db          | BAR DIAMETER                       | MA      | MASTARM                            | SY       | SQUARE YARD               |
| DCDA        | DOUBLE CHECK DETECTOR ASSEMBLY     | MAX     | MAXIMUM                            | T        | TANGENT DISTANCE          |
| Δ           | DELTA                              | MBGR    | METAL BEAM GUARDRAIL               | TC       | TOP OF CURB               |
| Dia, Ø      | DIAMETER                           | MH      | MANHOLE                            | TEMP     | TEMPORARY                 |
| DIP         | DUCTILE IRON PIPE                  | Min     | MINIMUM                            | TOB      | TOP OF BANK               |
| Dwy         | DRIVEWAY                           | MISC    | MISCELLANEOUS                      | TOE      | TOE OF SLOPE              |
| DWG         | DRAWING                            | N       | NORTH                              | TS       | TRAFFIC SIGNAL            |
| DWS         | DESIGN WATER SERVICE               | NO      | NUMBER                             | TYP      | TYPICAL                   |
| E           | EAST                               | NTS     | NOT TO SCALE                       | TOW      | TOP OF WALL               |
| EA          | EACH                               | OC      | ON CENTER                          | TRANS    | TRANSITION                |
| EC          | END CURVE                          | OH      | OVERHEAD UTILITY LINE              | UG       | UNDER GROUND UTILITY LINE |
| EF          | EACH FACE                          | OD      | OUTSIDE DIAMETER                   | UNO      | UNLESS NOTED OTHERWISE    |
| EP          | EDGE OF PAVEMENT                   | OF      | OUTSIDE FACE PERMANENT             | Var      | VARIES                    |
| EW          | EACH WAY                           | OG      | ORIGINAL GROUND                    | VERT     | VERTICAL                  |
| EL, Elev    | ELEVATION                          | PERM    | PERMANENT                          | W        | WEST, WATER MAIN          |
| ESVCP       | EXTRA STRENGTH VITRIFIED CLAY PIPE | PCC     | PORTLAND CEMENT CONCRETE           | W/       | WITH                      |
| EVP         | EMERGENCY VEHICLE PRE-EMPTION      | PCWA    | PLACER COUNTY WATER AGENCY         | WSE      | WEST, WATER MAIN          |
| EX, Exist   | EXISTING                           | PG&E    | PACIFIC GAS AND ELECTRIC           |          |                           |

**LEGEND:**



**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_



**Know what's below.  
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Contractor shall call  
Underground Service Alert at  
811 two working days prior  
to excavation

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**LEGEND AND ABBREVIATIONS**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of  
**Rocklin**  
4081 Avis Court  
Rocklin, CA 95667  
(916) 625-5500

REGISTERED PROFESSIONAL ENGINEER  
LARRY MICHAEL WILSON  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

|          |              |
|----------|--------------|
| SCALE    | NO SCALE     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM           |
| FILE     | 2227T001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

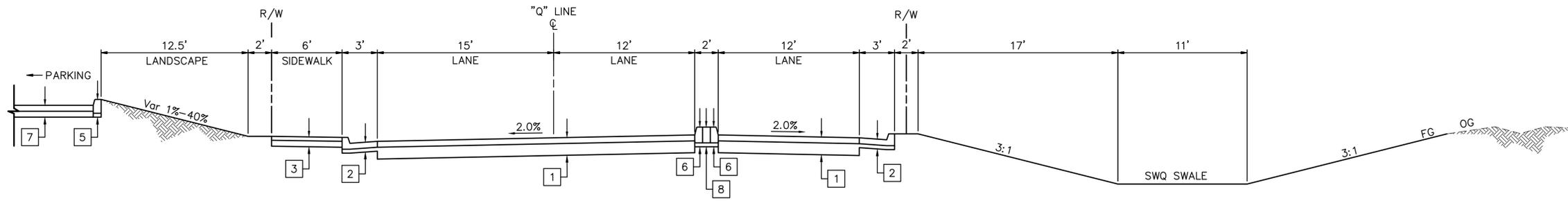
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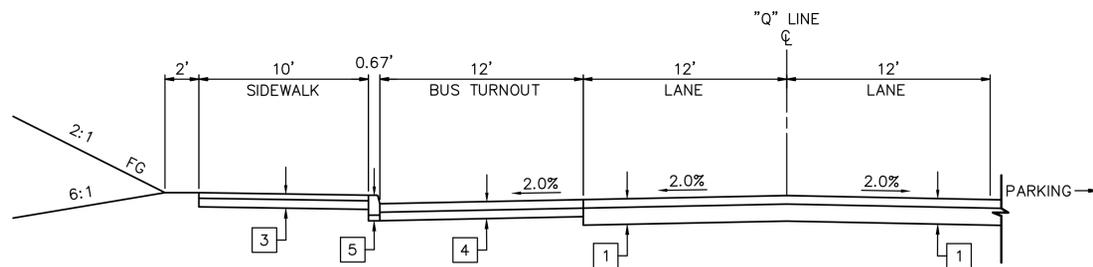
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**KEY NOTES:**  
(THIS SHEET ONLY)

- 1 NEW ROAD  
4" HMA (TYPE A)  
11" CLASS 2 AB
- 2 TYPE 2 CURB  
OVER 4" AB
- 3 SIDEWALK  
4" PCC  
6" CLASS 2 AB
- 4 BUS TURNOUT  
6" PCC  
6" CLASS 2 AB
- 5 TYPE 5 CURB (Mod) (SEE SHEET C1)  
OVER 4" CLASS 2 AB
- 6 TYPE 5 CURB (SEE SHEET C1)  
OVER 4" CLASS 2 AB
- 7 PARKING LOT  
3" HMA (TYPE A)  
8" CLASS 2 AB
- 8 MINOR CONCRETE (STAMPED CONCRETE)  
6" PCC  
4" CLASS 2 AB  
STAMPING PER DETAIL ON C SHEETS



**"Q" LINE**  
Sta 10+32 TO Sta 11+83



**"Q" LINE**  
Sta 12+82 TO Sta 13+90



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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

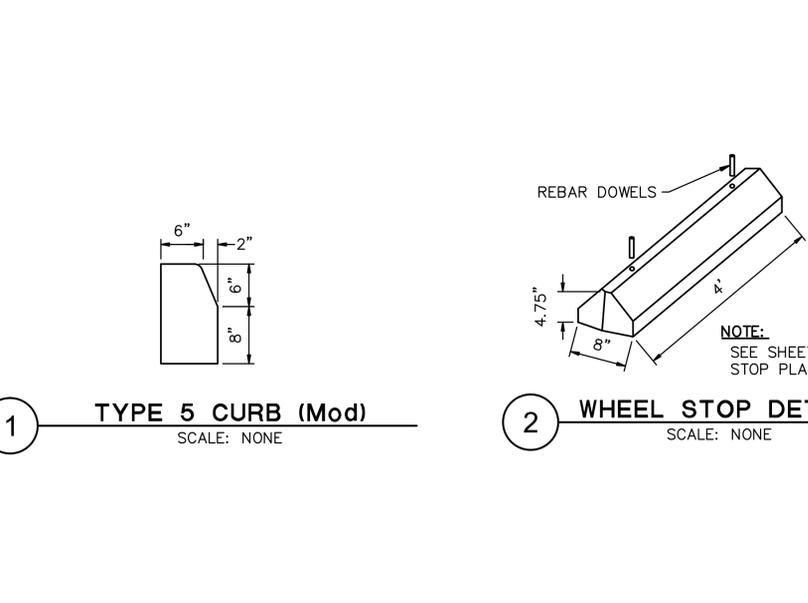
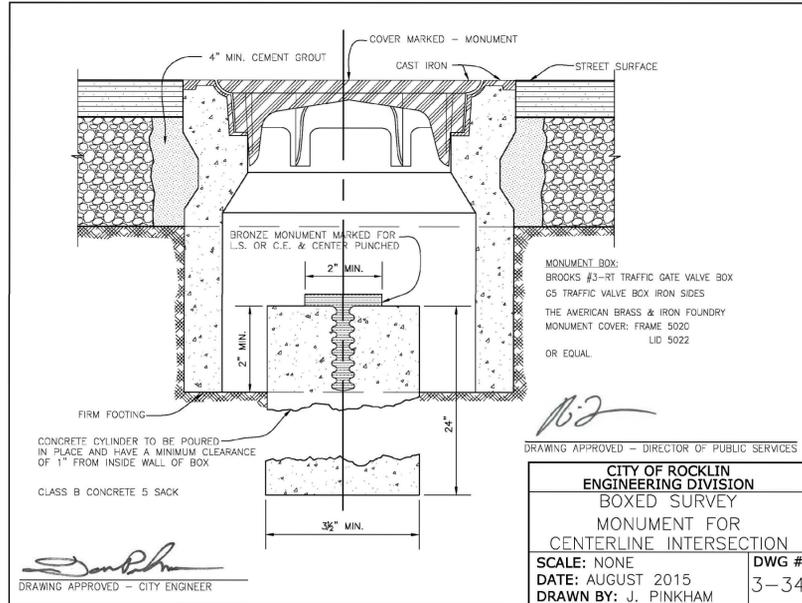
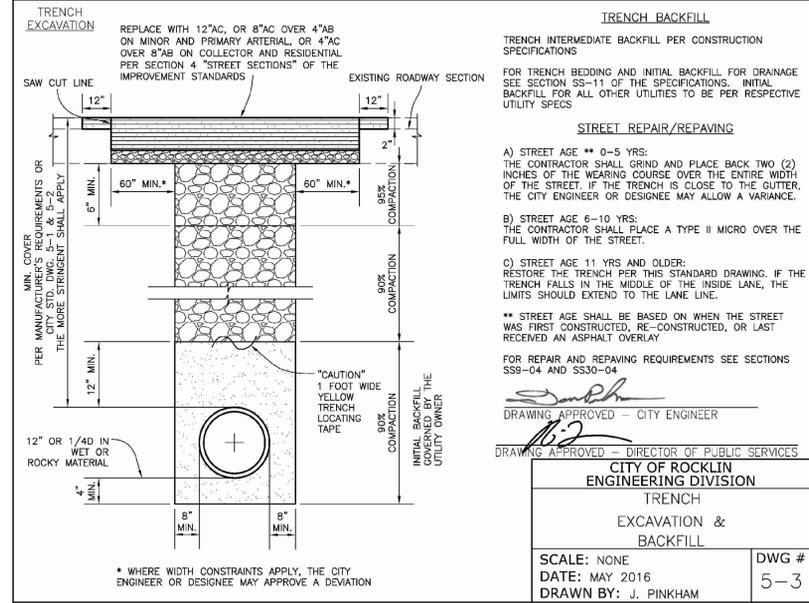
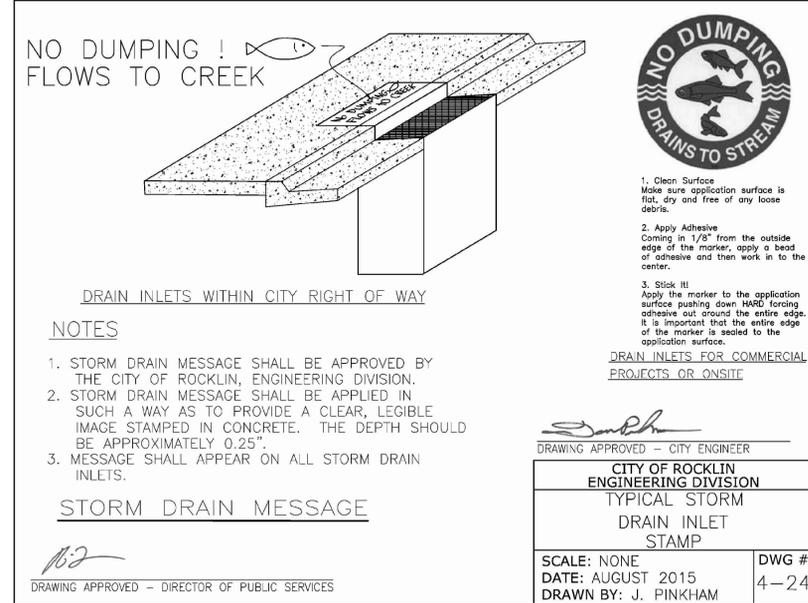
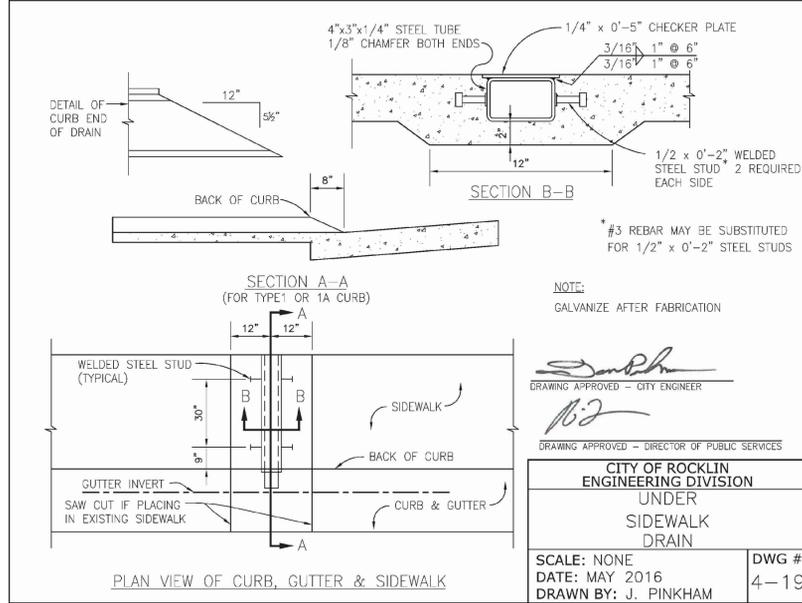
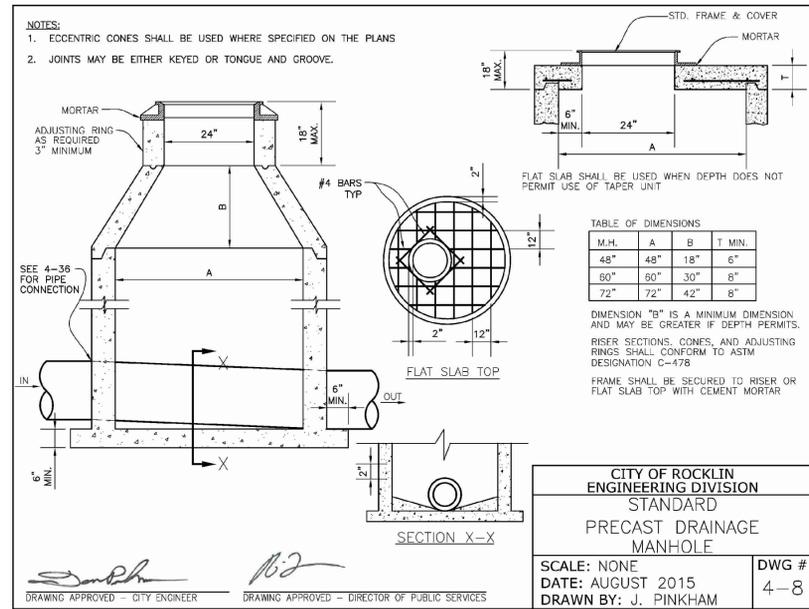
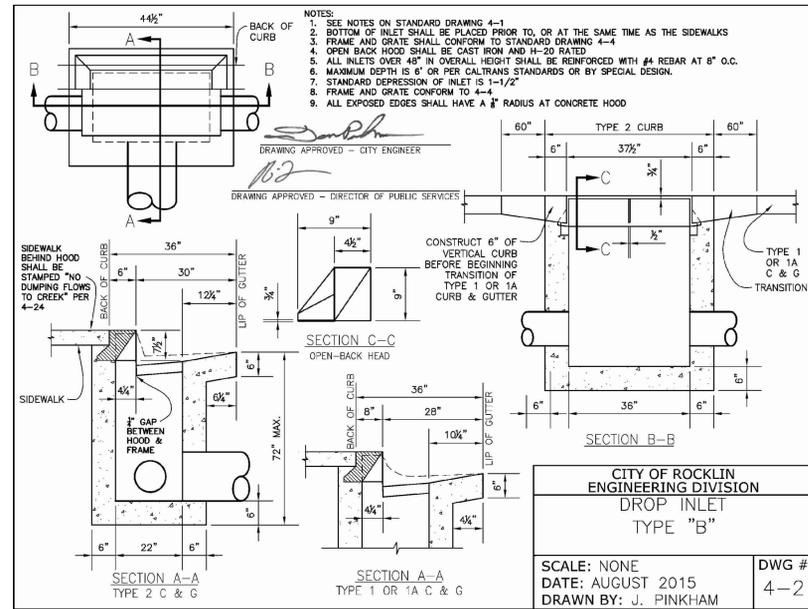
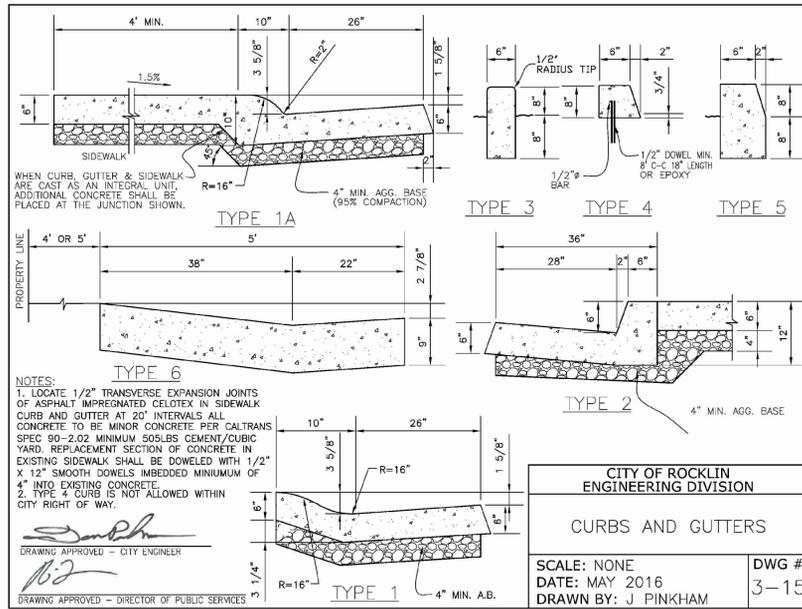


**TYPICAL SECTIONS AND DETAILS**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of  
**Rocklin**  
4081 Ames Court  
Rocklin, CA 95667  
(916) 625-5500



|          |              |
|----------|--------------|
| SCALE    | NO SCALE     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM/HD        |
| FILE     | 2227X003.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |



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**PROJECT ENGINEER** \_\_\_\_\_ **DATE** \_\_\_\_\_

**RCE #** \_\_\_\_\_

**811**  
 Know what's below.  
 Call before you dig.  
 Contractor shall call Underground Service Alert at 811 two working days prior to excavation

**CITY OF ROCKLIN**  
 4091 Ave Court  
 Rocklin, CA 95667  
 (916) 625-5500

**REGISTERED PROFESSIONAL ENGINEER**  
 MARY MICHAEL W. WILSON  
 No. 429836  
 Exp. 03-31-19  
 CIVIL  
 STATE OF CALIFORNIA

| SCALE    | NO SCALE     |
|----------|--------------|
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM           |
| FILE     | 2227C001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

**C1**  
 5 OF 45

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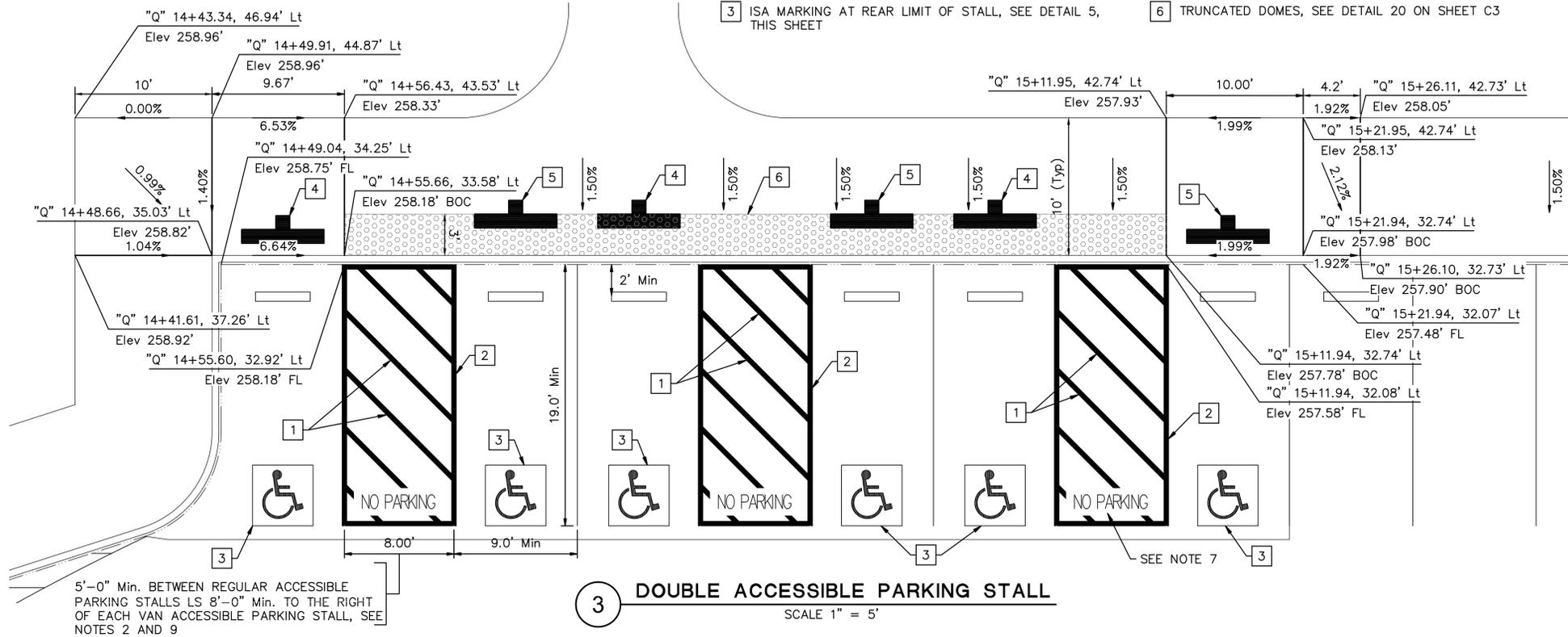
**CITY DETAILS**  
 NEW FIRE STATION ACCESS ROAD  
 AND PARKING LOTS FOR QUARRY  
 ADVENTURE PARK

**City of Rocklin**  
 4091 Ave Court  
 Rocklin, CA 95667  
 (916) 625-5500

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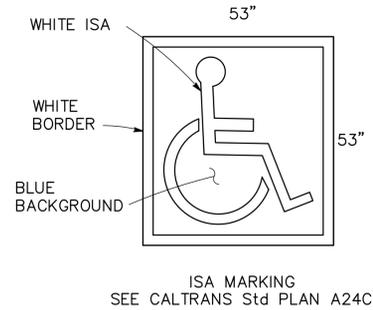
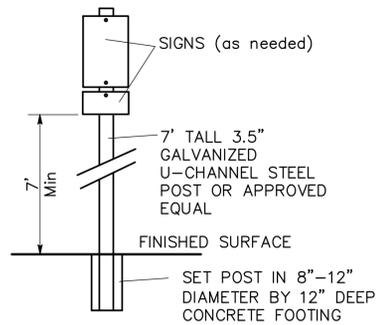
**KEY NOTES: (THIS SHEET ONLY)**

- 1 4" WHITE LINE DIAGONALS AT 3'-0" MAX CENTERS
- 2 4" BLUE LINE BORDERS.
- 3 ISA MARKING AT REAR LIMIT OF STALL, SEE DETAIL 5, THIS SHEET
- 4 ISA PARKING SIGN, SEE NOTES 2 AND 9.
- 5 ISA PARKING SIGN, SEE NOTE 9.
- 6 TRUNCATED DOMES, SEE DETAIL 20 ON SHEET C3



**ACCESSIBLE PARKING NOTES**

- ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE PARKING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.
- ONE IN EVERY EIGHT ACCESSIBLE OFF-STREET PARKING STALLS, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESSIBLE AISLE OF 8'-0" MINIMUM WIDTH AND SHALL BE SIGNED VAN ACCESSIBLE. THE R7-8B SIGN SHALL BE MOUNTED BELOW THE R99B (CA) PLAQUE OR THE R99C (CA) SIGN.
- A WHEEL STOP CURB SHALL BE PLACED AT ALL ACCESSIBLE PARKING SPACES. THE WHEEL STOP CURB SHALL BE PROVIDED TO PREVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED MINIMUM WIDTH OF WALKWAYS. PARKING STALLS SHALL BE SO LOCATED THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WHEEL OR WALK BEHIND PARKED CARS OTHER THAN THEIR OWN.
- SURFACE SLOPES OF ACCESSIBLE OFF-STREET PARKING STALLS SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 2 PERCENT IN ANY DIRECTION.
- CA CBC SHALL BE USED TO DETERMINE THE REQUIRED NUMBER OF ACCESSIBLE PARKING STALLS IN EACH PARKING LOT OR GARAGE.
- WHERE PLAQUE R99B (CA), SIGN R99C (CA) OR SIGN R7-8B ARE INSTALLED, THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0" ABOVE THE SURROUNDING SURFACE.
- THE WORDS "NO PARKING", SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 1'-0" HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS.
- A R100B (CA) SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL. THE SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY.
- ACCESSIBLE PARKING ONLY SIGN SHALL BE SIGN R99C (CA) OR SIGN R99 (CA) WITH PLAQUE R99B (CA). WHERE A SINGLE (NON-VAN) ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.



**4 SIGN POST DETAIL**  
SCALE: NONE

**5 ISA MARKING**  
SCALE: NONE

**6 ACCESSIBLE LOADING SIGN**  
SCALE: NONE

**7 ACCESSIBLE PARKING AND FINE SIGN**  
SCALE: NONE

**8 ACCESSIBLE MINIMUM FINE SIGN**  
SCALE: NONE



UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE

TOWED VEHICLES MAY BE RECLAIMED AT 4080 ROCKLIN ROAD ROCKLIN, CA 95677 OR BY TELEPHONING (916) 625-5400

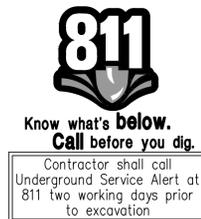


**9 VAN ACCESSIBLE SIGN**  
SCALE: NONE

**10 UNAUTHORIZED VEHICLES SIGN**  
SCALE: NONE

**11 ROUTE SIGN - LEFT**  
SCALE: NONE

**12 ROUTE SIGN - RIGHT**  
SCALE: NONE



**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

**ACCESSIBLE PARKING DETAILS**  
NEW FIRE STATION ACCESS ROAD AND PARKING LOTS FOR QUARRY ADVENTURE PARK

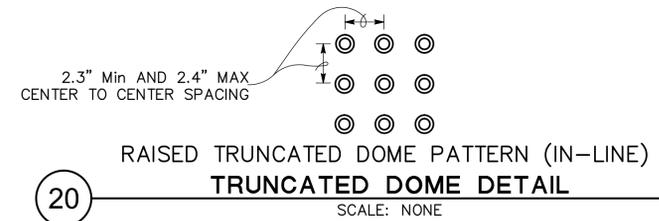
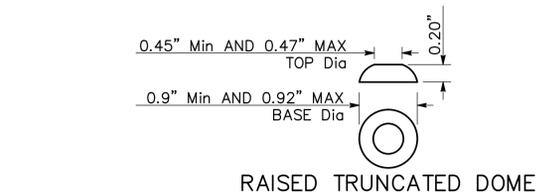
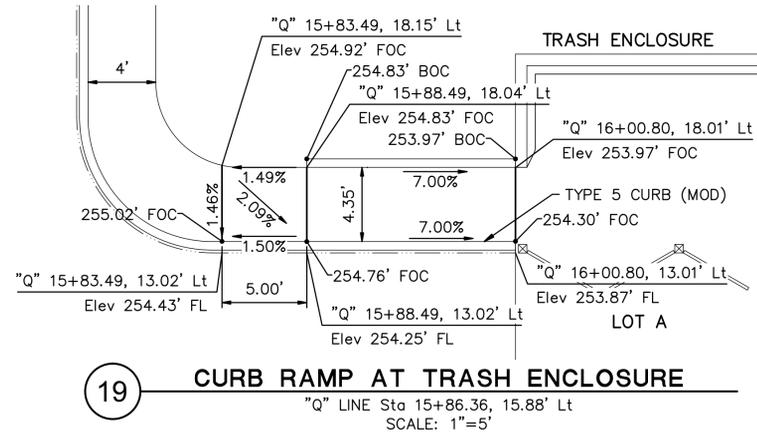
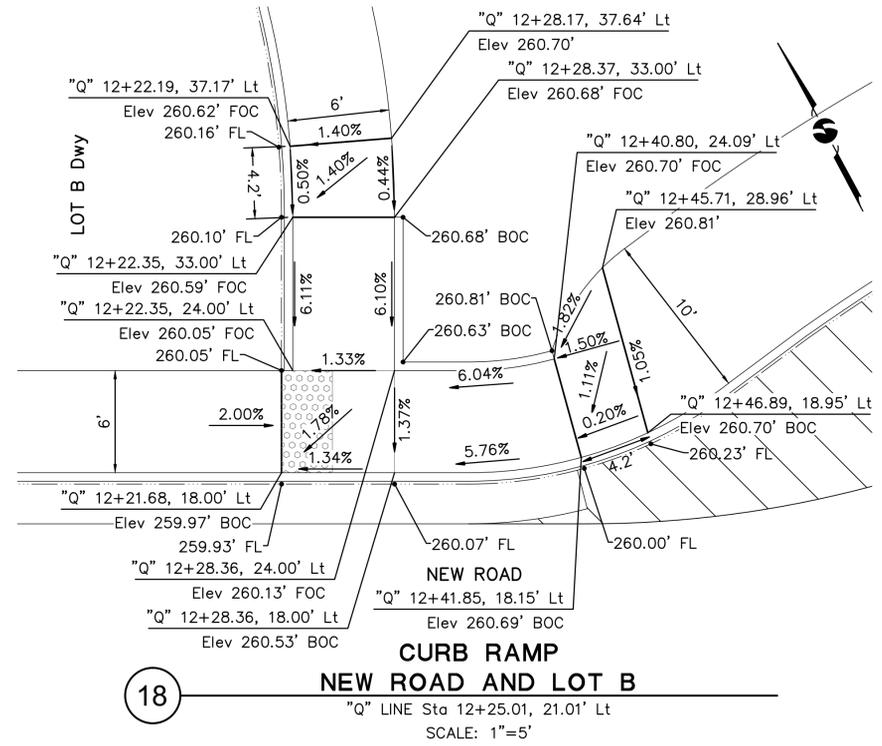
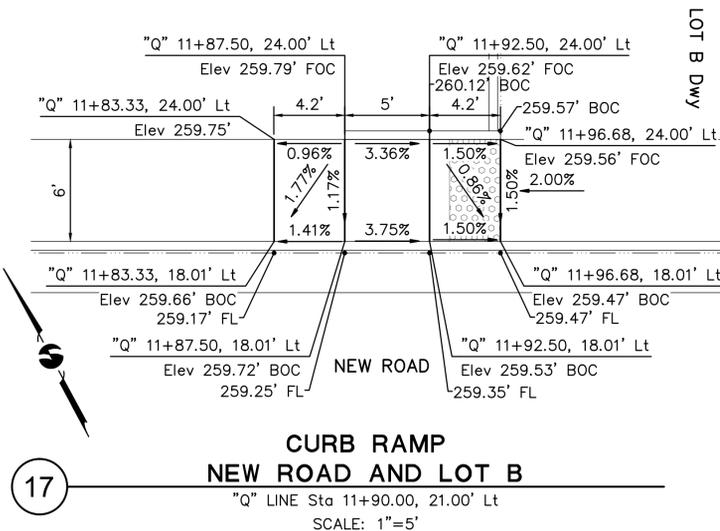
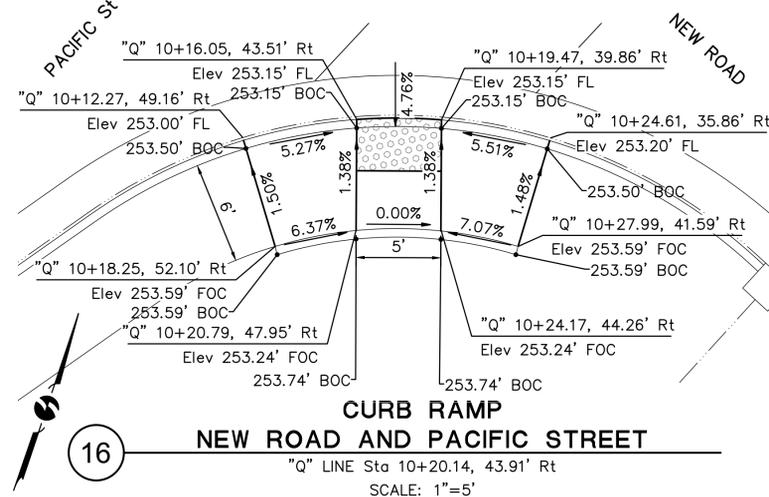
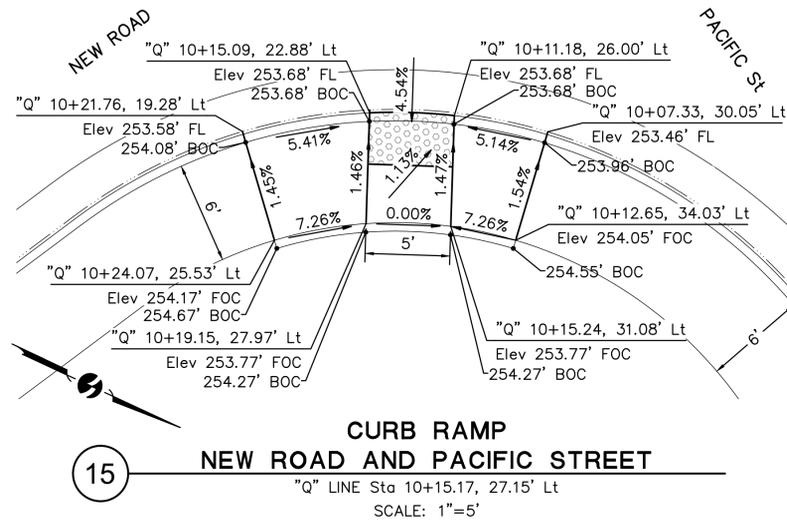
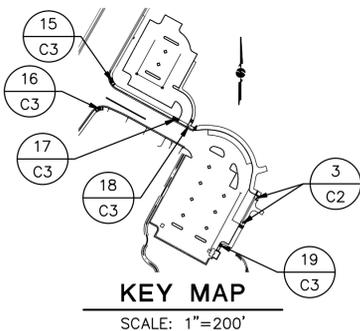
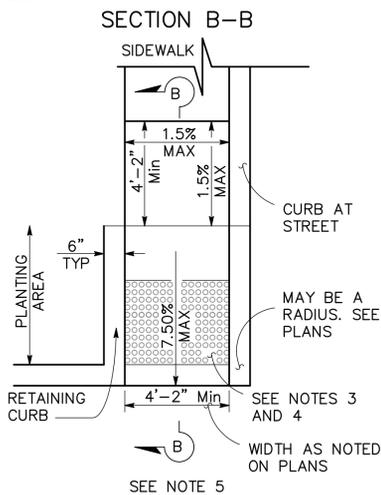
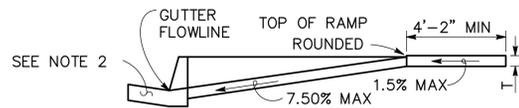
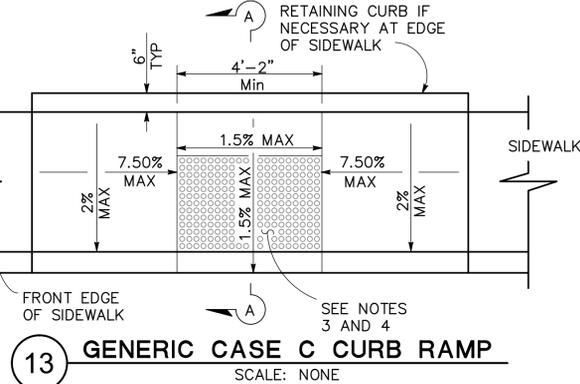
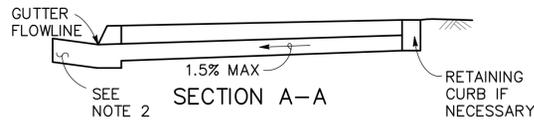
City of Rocklin  
4081 Ave Court  
Rocklin, CA 95667  
(916) 625-5500



|          |              |
|----------|--------------|
| SCALE    | NO SCALE     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM           |
| FILE     | 2227C001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

**NOTES**

- TRANSITIONS FROM RAMPS AND LANDING TO WALKS, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
- MAXIMUM SLOPES OF ADJOINING GUTTERS, THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP OR ACCESSIBLE ROUTE SHALL NOT EXCEED 5 PERCENT WITHIN 4'-0" OF THE TOP AND BOTTOM OF THE CURB RAMP.
- CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP. "YELLOW" TRUNCATED DOME PANELS SHALL BE OF VITRIFIED POLYMER COMPOSITE CONSTRUCTION, EMBEDDED TYPE MANUFACTURED BY ARMOR TILE TACTILE SYSTEMS, BUFFALO, NEW YORK, ADA SOLUTIONS, N. BILLERICA, MA, OR APPROVED EQUAL. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE DETAILS ON THIS PLAN (FROM CALTRANS STANDARD PLAN RNSP A88) AND DIVISION OF THE STATE ARCHITECT ACCESSIBILITY REFERENCE MANUAL, FIGURE NO. 31-23A. THE ORIENTATION OF THE DOME PATTERN FOR ALL PANELS SHALL BE PARALLEL WITH THE PANEL EDGES. THESE DETAILS CONFORM TO THE CITY OF ROSEVILLE STANDARDS FOR THE INSTALLATION OF DETECTABLE WARNING SURFACES ON CURB RAMPS.
- THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOW-LINE.
- AS SITE CONDITIONS DICTATE, THE RETAINING CURB SIDE AND THE FLARED SIDE OF THE TYPE C RAMP SHALL BE CONSTRUCTED IN REVERSED POSITION.



**811**  
Know what's below.  
Call before you dig.  
Contractor shall call Underground Service Alert at 811 two working days prior to excavation

**RECORD DRAWING**  
ALL INFORMATION SHOWN ON THESE PLANS HAVE BEEN PREPARED BY, OR UNDER THE DIRECTION OF, THE UNDERSIGNED ENGINEER. ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION ARE INCLUDED HEREIN WHEN THE PROJECT ENGINEER IS ADVISED IN WRITING OF SUCH CHANGE BY THE OWNER, DEVELOPER, CONTRACTOR OR THE CITY OF ROCKLIN.  
**PROJECT ENGINEER** \_\_\_\_\_ **DATE** \_\_\_\_\_  
**RCE** †

|          |  |
|----------|--|
| DATE     |  |
| REVISION |  |
| NO.      |  |

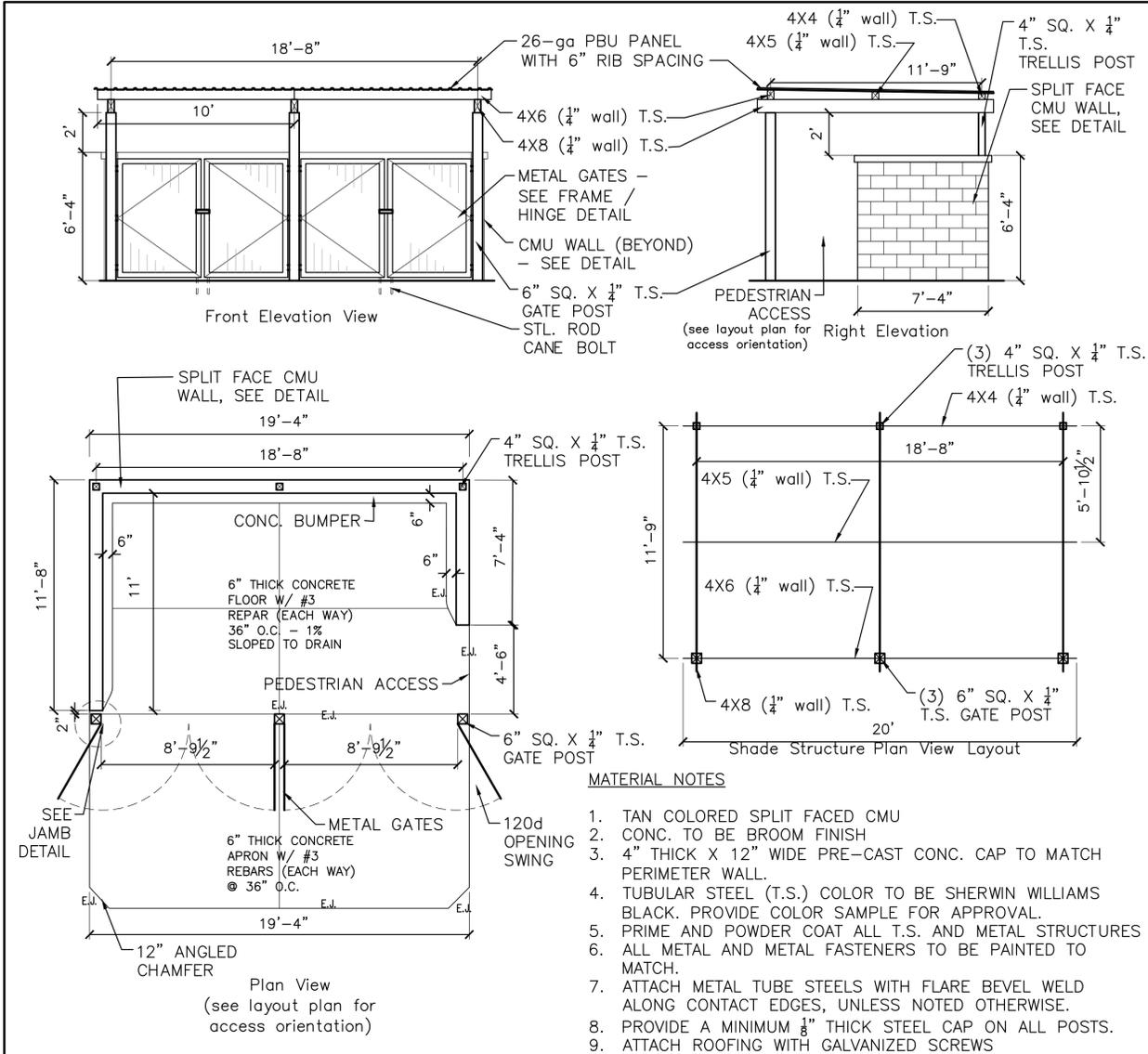
**omni-means**  
ENGINEERING SOLUTIONS  
SACRAMENTO REGION  
1001 N. WASHINGTON ST., SUITE 100  
ROCKLIN, CA 95677  
(916) 227-2200  
WWW.OMNIMEANS.COM

**CURB RAMP DETAILS**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

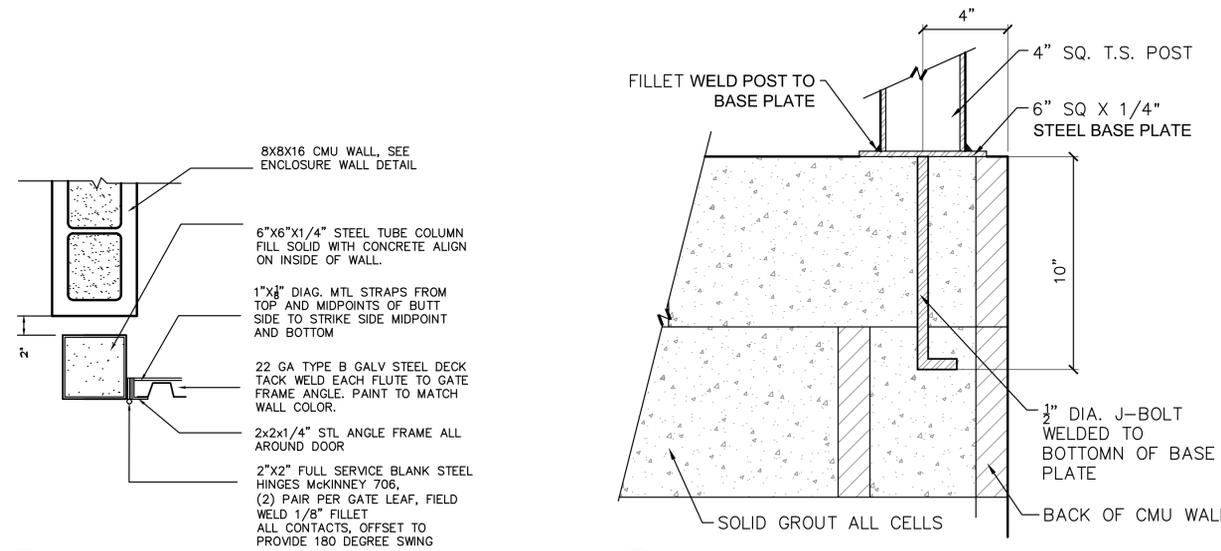
**City of Rocklin**  
4091 Ave Court  
Rocklin, CA 95667  
(916) 625-5500

REGISTERED PROFESSIONAL ENGINEER  
MARRY MICHAEL W. BAUER  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

|          |              |
|----------|--------------|
| SCALE    | AS NOTED     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | HD           |
| FILE     | 2227C001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |



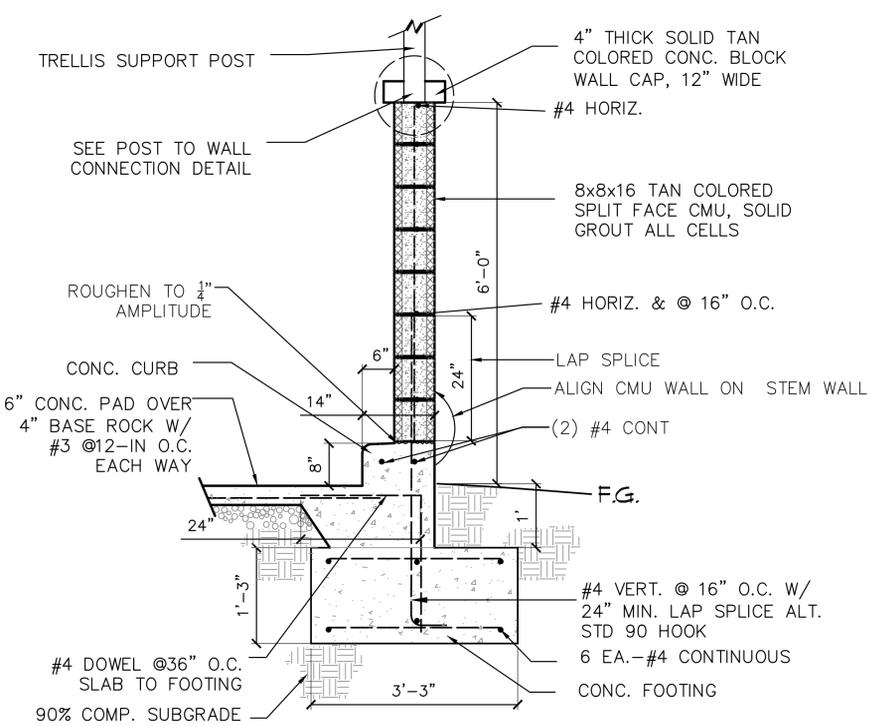
**1** DOUBLE TRASH ENCLOSURE W/ METAL ROOF  
1/4" = 1'-0"



**3** TRASH ENCLOSURE GATE JAMB  
NOT TO SCALE

**4** STEEL POST TO CMU WALL CONNECTION  
3" = 1'-0"

**2** TRASH ENCLOSURE WALL  
3/4" = 1'-0"



|          |  |
|----------|--|
| BY       |  |
| DATE     |  |
| REVISION |  |
| NO.      |  |

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SACRAMENTO REGION  
4001 AVIS COURT  
ROCKLIN, CA 95667  
(916) 625-5500  
www.omnimeans.com

**TRASH ENCLOSURE DETAIL**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of  
**Rocklin**  
4081 AVIS COURT  
ROCKLIN, CA 95667  
(916) 625-5500

**811**  
Know what's below.  
Call before you dig.  
Contractor shall call  
Underground Service Alert at  
811 two working days prior  
to excavation

REGISTERED PROFESSIONAL ENGINEER  
MARTIN MICHAEL W. STAMM  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

**RECORD DRAWING**  
ALL INFORMATION SHOWN ON THESE PLANS HAVE BEEN PREPARED BY, OR UNDER THE DIRECTION OF, THE UNDERSIGNED ENGINEER. ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION ARE INCLUDED HEREIN WHEN THE PROJECT ENGINEER IS ADVISED IN WRITING OF SUCH CHANGE BY THE OWNER, DEVELOPER, CONTRACTOR OR THE CITY OF ROCKLIN.

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

|          |              |
|----------|--------------|
| SCALE    | AS NOTED     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | SR           |
| DRAWN    | SR           |
| FILE     | 2227C002.DWG |
| CHECKED  | SR           |
| DATE     | MAY 11, 2017 |

**NOTES**

1. SEE SHEET DM2 FOR ALL TREES (OAKS AND NON-OAKS) TO BE REMOVED.

**TREE IMPACT OVERVIEW**

NICOLE HARRISON, ISA CERTIFIED ARBORIST #WE-6500AM,TRAQ, OF ABACUS CONSULTING ARBORISTS WAS ON SITE FEBRUARY 13, 2017 AND MARCH 8, 2017, PROVIDING SPECIES IDENTIFICATION, NUMBER OF TRUNKS, MEASUREMENTS OF TDBH AND CANOPY, FIELD CONDITION NOTES, RECOMMENDED ACTIONS, AND RATINGS.

**RATINGS**

RATING IS SUBJECTIVE TO CONDITION AND IS BASED ON BOTH THE HEALTH AND STRUCTURE OF THE TREE. ALL OF THE TREES WERE RATED FOR CONDITION, PER THE RECOGNIZED NATIONAL STANDARD AS SET UP BY THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS AND THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) ON A NUMERIC SCALE OF 5 (BEING THE HIGHEST) TO 0 (THE WORST CONDITION, DEAD).

**RATING #0:** THIS INDICATES A TREE THAT HAS NO SIGNIFICANT SIGN OF LIFE.

**RATING #1:** THE PROBLEMS ARE EXTREME. THIS RATING IS ASSIGNED TO A TREE THAT HAS STRUCTURAL AND/OR HEALTH PROBLEMS THAT NO AMOUNT OF WORK OR EFFORT CAN CHANGE. THE ISSUES MAY OR MAY NOT BE CONSIDERED A DANGEROUS SITUATION.

**RATING #2:** THE TREE HAS MAJOR PROBLEMS. IF THE OPTION IS TAKEN TO PRESERVE THE TREE, ITS CONDITION COULD BE IMPROVED WITH CORRECT ARBORICULTURAL WORK INCLUDING, BUT NOT LIMITED TO: PRUNING, CABLING, BRACING, BOLTING, GUYING, SPRAYING, MISTLETOE REMOVAL, VERTICAL MULCHING, FERTILIZATION, ETC. IF THE RECOMMENDED ACTIONS ARE COMPLETED CORRECTLY, HAZARD CAN BE REDUCED AND THE RATING CAN BE ELEVATED TO A 3. IF NO ACTION IS TAKEN, THE TREE IS CONSIDERED A LIABILITY AND SHOULD BE REMOVED.

**RATING #3:** TREE IS IN FAIR CONDITION. THERE ARE SOME MINOR STRUCTURAL OR HEALTH PROBLEMS THAT POSE NO IMMEDIATE DANGER. WHEN THE RECOMMENDED ACTIONS IN AN ARBORIST REPORT ARE COMPLETED CORRECTLY, THE DEFECT(S) CAN BE MINIMIZED OR ELIMINATED.

**RATING #4:** THE TREE IS IN GOOD CONDITION AND THERE ARE NO APPARENT PROBLEMS THAT A CERTIFIED ARBORIST CAN SEE FROM A VISUAL GROUND INSPECTION.

**RATING #5:** NO PROBLEMS FOUND FROM A VISUAL GROUND INSPECTION.

| MITIGATION REQUIRED               |                   |                     |                           |           |             |                    |
|-----------------------------------|-------------------|---------------------|---------------------------|-----------|-------------|--------------------|
| OAK TREES WITH RATINGS 5, 4, OR 3 |                   |                     |                           |           |             |                    |
| TREE No.                          | COMMON NAME       | BOTANICAL NAME      | DBH MULTI-TRUNK (in)      | TDBH (in) | 2017 RATING | IMPACTED TREE (in) |
| 221                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 10, 8                     | 10        | 3           | 10                 |
| 223                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 6, 4                      | 8         | 3           | 8                  |
| 225                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 12, 10                    | 16        | 3           | 16                 |
| 232                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 8                         | 8         | 3           | 8                  |
| 233                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 13, 13, 12, 12, 10, 9, 8  | 13        | 3           | 13                 |
| 239                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 8, 7, 6                   | 9         | 3           | 9                  |
| 240                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 8, 7, 6                   | 9         | 3           | 9                  |
| 242                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -                         | 9         | 3           | 9                  |
| 244                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -                         | 9         | 3           | 9                  |
| 245                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 2                         | 7         | 3           | 7                  |
| 247                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -                         | 8         | 3           | 8                  |
| 248                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -                         | 9         | 3           | 9                  |
| 250                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -                         | 18        | 4           | 18                 |
| 253                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -                         | 12        | 3           | 12                 |
| 256                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 5, 3                      | 8         | 3           | 8                  |
| 258                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 8, 6, 5, 3, 3, 2, 2, 2, 2 | 8         | 3           | 8                  |
| 259                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -                         | 28        | 4           | 28                 |
| 301                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -                         | 9         | 3           | 9                  |
| 302                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 12, 9                     | 12        | 3           | 12                 |
| 304                               | BLUE OAK          | QUERCUS DOUGLASII   | -                         | 7         | 3           | 7                  |
| 305                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -                         | 26        | 4           | 26                 |
| 308                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 10, 8, 8, 7               | 11        | 3           | 11                 |
| 309                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 5, 6                      | 8         | 3           | 8                  |
| 313                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 7, 7                      | 9         | 3           | 9                  |
| 311                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 7                         | 7         | 3           | 7                  |
| 319                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 3                         | 6         | 3           | 6                  |
| 322                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 12, 12, 10                | 15        | 4           | 15                 |
| 323                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 11, 10, 6                 | 13        | 3           | 13                 |
|                                   |                   |                     | TDBH                      | 312       |             | 312                |

| OAK TREES WITH RATINGS 2, 1, OR 0 |                   |                     |   |           |             |                    |
|-----------------------------------|-------------------|---------------------|---|-----------|-------------|--------------------|
| TREE No.                          | COMMON NAME       | BOTANICAL NAME      | DBH MULTI-TRUNK (in)                        | TDBH (in) | 2017 RATING | IMPACTED TREE (in) |
| 222                               | BLUE OAK          | QUERCUS DOUGLASII   | -   | 8         | 2           | 8                  |
| 224                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 6, 4  | 7         | 2           | 7                  |
| 226                               | BLUE OAK          | QUERCUS DOUGLASII   | -   | 12        | 1           | 12                 |
| 227                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 8, 8, 8                                     | 8         | 1           | 8                  |
| 228                               | VALLEY OAK        | QUERCUS LOBATA      | -   | 9         | 2           | 9                  |
| 229                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 6, 5  | 7         | 2           | 7                  |
| 230                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -   | 9         | 1           | 9                  |
| 231                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 7   | 8         | 2           | 8                  |
| 234                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 7, 5  | 8         | 1           | 8                  |
| 235                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 12, 12, 10, 9, 8, 8                         | 14        | 2           | 14                 |
| 236                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -   | 9         | 1           | 9                  |
| 237                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 4   | 8         | 2           | 8                  |
| 238                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 5   | 7         | 2           | 7                  |
| 241                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 18  | 17        | 2           | 17                 |
| 243                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -   | 7         | 2           | 7                  |
| 246                               | VALLEY OAK        | QUERCUS LOBATA      | -   | 10        | 2           | 10                 |
| 249                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 6, 4, 6, 4, 6, 3                            | 9         | 1           | 9                  |
| 251                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 4, 4, 4, 4, 3, 3, 3                         | 6         | 2           | 6                  |
| 252                               | BLUE OAK          | QUERCUS DOUGLASII   | 4   | 6         | 1           | 6                  |
| 255                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 9, 7, 6, 5, 4, 3, 3, 3, 2, 3, 7             | 10        | 2           | 10                 |
| 257                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 4, 4, 4, 4, 3, 3                            | 6         | 2           | 6                  |
| 260                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -   | 6         | 2           | 6                  |
| 296                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 10, 12, 15                                  | 0         | 1           | 0                  |
| 297                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 15  | 15        | 1           | 15                 |
| 299                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 8, 11, 11, 9                                | 14        | 2           | 14                 |
| 300                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 8, 6, 4, 7, 7, 4                            | 10        | 2           | 10                 |
| 303                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 10, 9                                       | 18        | 2           | 18                 |
| 306                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 15, 12, 10                                  | 20        | 2           | 20                 |
| 307                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 5   | 10        | 1           | 10                 |
| 310                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 11, 10, 10, 9, 8, 8, 8, 7, 7, 6, 8, 6, 7, 6 | 12        | 2           | 12                 |
| 312                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 6, 5  | 7         | 2           | 7                  |
| 314                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 6, 6  | 7         | 1           | 7                  |
| 315                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 5, 5  | 7         | 2           | 7                  |
| 316                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -   | 8         | 2           | 8                  |
| 317                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -   | 8         | 2           | 8                  |
| 318                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 5   | 8         | 2           | 8                  |
| 320                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | -   | 7         | 1           | 7                  |
| 321                               | INTERIOR LIVE OAK | QUERCUS WISLINZENII | 7, 7, 6, 5, 4                               | 9         | 1           | 9                  |
|                                   |                   |                     | TDBH  | 351       |             | 351                |

|          |  |
|----------|--|
| DATE     |  |
| REVISION |  |
| NO.      |  |

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SACRAMENTO REGION  
1001 Northgate Blvd, Ste 100  
Rocklin, CA 95667  
www.omnimeans.com  
DM LIST 08/09 & 11/14

**OAK TREE IMPACT MITIGATION AREA**  
NEW FIRE STATION ACCESS ROAD AND PARKING LOTS FOR QUARRY ADVENTURE PARK

City of Rocklin  
4081 Ave Court  
Rocklin, CA 95667  
(916) 625-5500

LARRY MICHAEL W. PFEIFFER  
Exp 03-31-19  
CIVIL  
STATE OF CALIFORNIA

|          |               |
|----------|---------------|
| SCALE    | NO SCALE      |
| JOB NO.  | 25-6000-49    |
| DESIGNED | HD            |
| DRAWN    | HD            |
| FILE     | 2227DM001.DWG |
| CHECKED  | LW            |
| DATE     | MAY 11, 2017  |

**DM1**  
9 OF 44



Contractor shall call Underground Service Alert at 811 two working days prior to excavation

**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

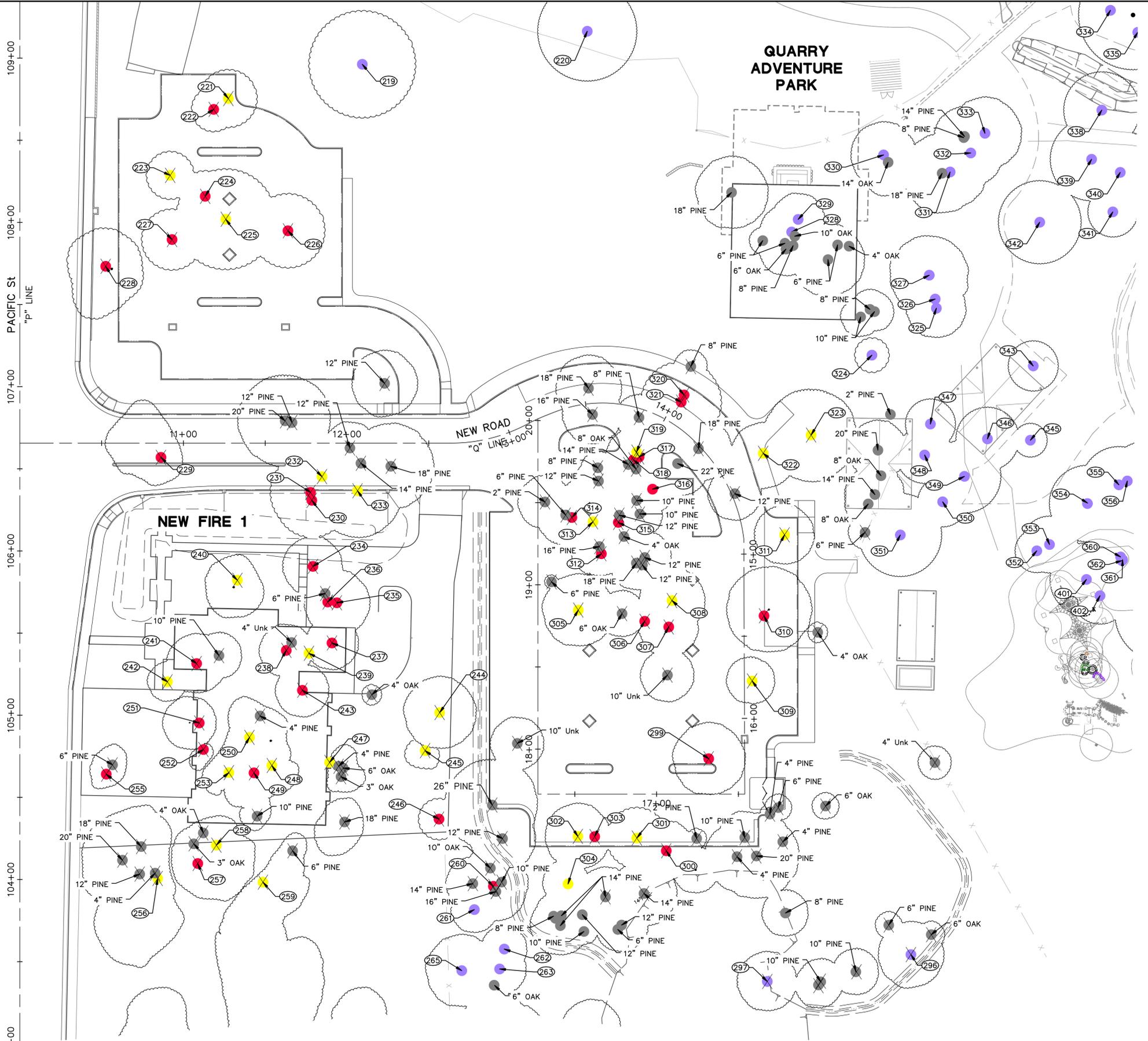
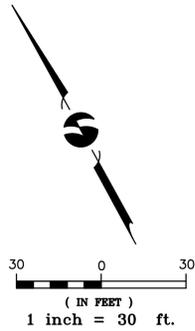
5/10/2017 10:07 PM \\fs03\250\25\DATA\COMMON\PRJ\2227\2227DM001.DWG

**NOTES**

1. SEE SHEET DM1 FOR OAK TREE MITIGATION NOTES.

**LEGEND**

- OAK TREES RATED 0, 1 OR 2
  - OAK TREES RATED 3 OR 4
  - OAK TREE RATED 5
  - NON-PROTECTED TREE SPECIES
  - "ADJACENT" OFF-SITE OAK TREES
  - ⊗ OAK TREE No. PER ARBORIST REPORT
  - ✕ TREE TO BE REMOVED
- X" XXX  
 ↑ TREE SPECIES  
 ↓ NON-PROTECTED TREE SPECIES' DBH



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 Underground Service Alert at  
 811 two working days prior  
 to excavation

**RECORD DRAWING**

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PROJECT ENGINEER

DATE

RCE †

|          |  |
|----------|--|
| DATE     |  |
| REVISION |  |
| NO.      |  |

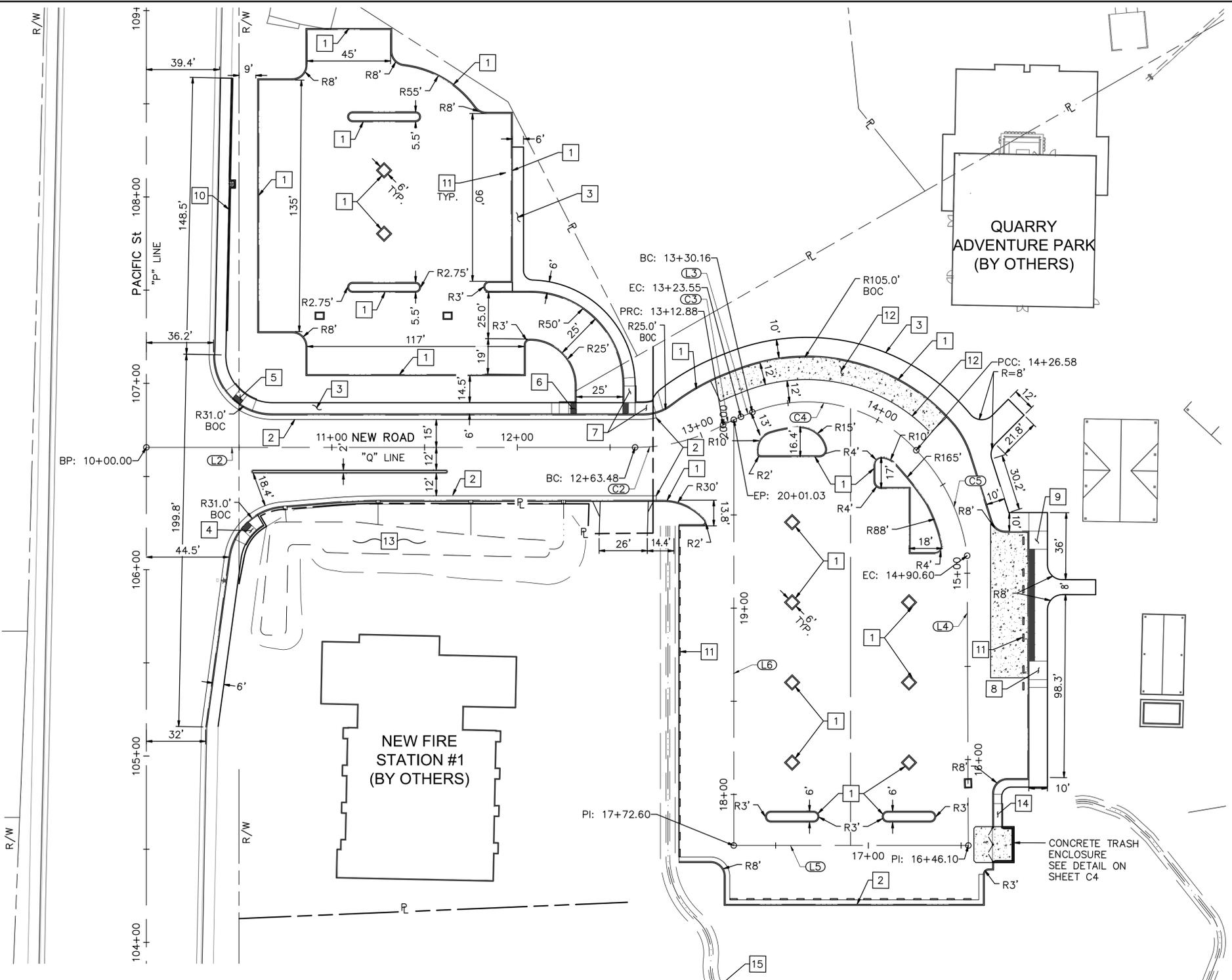
**omni.means**  
 ENGINEERING & SOLUTIONS  
 SACRAMENTO REGION  
 1007 N. WASHINGTON ST., SUITE 100  
 SACRAMENTO, CA 95833  
 (916) 442-1000  
 www.omnimeans.com

**OAK TREE IMPACT  
 MITIGATION AREA**  
 NEW FIRE STATION ACCESS ROAD  
 AND PARKING LOTS FOR QUARRY  
 ADVENTURE PARK

**City of  
 Rocklin**  
 4091 Ams Court  
 Rocklin, CA 95667  
 (916) 625-5500

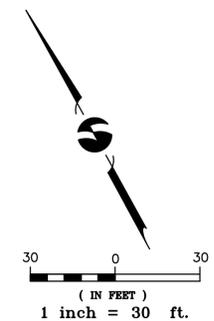
REGISTERED PROFESSIONAL ENGINEER  
 MARY MICHAEL W. BAUER  
 No. 429836  
 Exp. 03-31-19  
 CIVIL  
 STATE OF CALIFORNIA

|          |               |
|----------|---------------|
| SCALE    | 1" = 30'      |
| JOB NO.  | 25-6000-49    |
| DESIGNED | HD            |
| DRAWN    | HD            |
| FILE     | 2227DM001.DWG |
| CHECKED  | LW            |
| DATE     | MAY 11, 2017  |



**LEGEND:**

- CONCRETE PAD, BUS LOADING
- 6" PCC
- 6" CLASS 2 AB



**KEY NOTES: (THIS SHEET ONLY)**

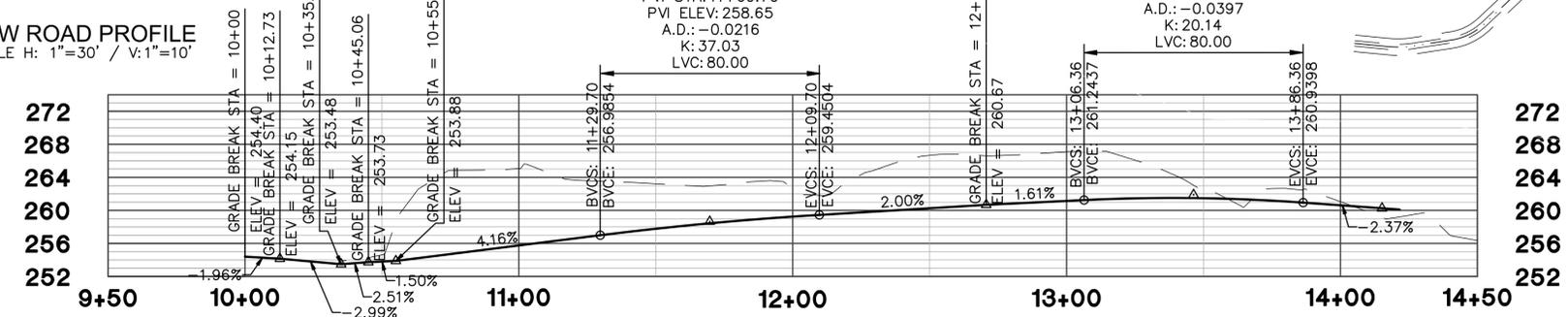
- 1 CONSTRUCT TYPE 5 CURB MODIFIED. SEE DETAIL 1 ON SHEET C1.
- 2 CONSTRUCT TYPE 2 CONCRETE CURB AND GUTTER PER CITY STD DWG No. 3-15. SEE DETAIL ON SHEET C1.
- 3 CONSTRUCT SIDEWALK.
- 4 CONSTRUCT CURB RAMP. SEE DETAIL 16 ON SHEET C3.
- 5 CONSTRUCT CURB RAMP. SEE DETAIL 15 ON SHEET C3.
- 6 CONSTRUCT CURB RAMP. SEE DETAIL 17 ON SHEET C3.
- 7 CONSTRUCT CURB RAMP. SEE DETAIL 18 ON SHEET C3.
- 8 CONSTRUCT CURB RAMP. SEE DETAIL 3 ON SHEET C2.
- 9 CONSTRUCT CURB RAMP. SEE DETAIL 3 ON SHEET C2.
- 10 RETAINING WALL. SEE RETAINING WALL PLANS. SHEETS RW1 AND RW2.
- 11 PLACE WHEEL STOP. SEE DETAIL 2 ON SHEET C1.
- 12 CONCRETE PAD. BUS LOADING.
- 13 LID SELF-RETAINING SWALE. SEE DRAINAGE DETAILS ON SHEET D3.
- 14 CONSTRUCT CURB RAMP. SEE DETAIL 19 ON SHEET C3.
- 15 LID SELF-TREATING SWALE. SEE DRAINAGE DETAILS ON SHEET D3.

**NOTES:**

1. ALL DIMENSIONS REFERENCE TO BOTTOM FACE OF CURB UNLESS OTHERWISE NOTED.
2. SEE LANDSCAPE PLANS FOR ALL DIMENSIONS BEHIND TOP BACK OF WALK.
3. ALL CONSTRUCTION SHALL COMPLY WITH CALIFORNIA TITLE 24 REGULATIONS AND ADA REGULATIONS. MOST CURRENT AND MOST RESTRICTIVE SHALL APPLY.
4. REFERENCE TO "CITY STD" AS SHOWN ON THESE PLANS SHALL MEAN CITY OF ROCKLIN DESIGN STANDARDS.

| NEW ROAD   |               |         |         |
|------------|---------------|---------|---------|
| CURVE/LINE | BEARING/Delta | LENGTH  | RADIUS  |
| C2         | 28°18'20"     | 49.40'  | 100.00' |
| C3         | 6°47'21"      | 10.66'  | 90.00'  |
| C4         | 69°03'17"     | 96.42'  | 80.00'  |
| C5         | 37°25'43"     | 64.02'  | 98.00'  |
| L2         | S61°28'52"E   | 263.48' | -       |
| L3         | S82°59'50"E   | 6.62'   | -       |
| L4         | S28°16'59"W   | 155.50' | -       |
| L5         | N61°28'52"W   | 126.50' | -       |
| L6         | N28°31'08"E   | 228.43' | -       |

**NEW ROAD PROFILE**  
SCALE H: 1"=30' / V: 1"=10'



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**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

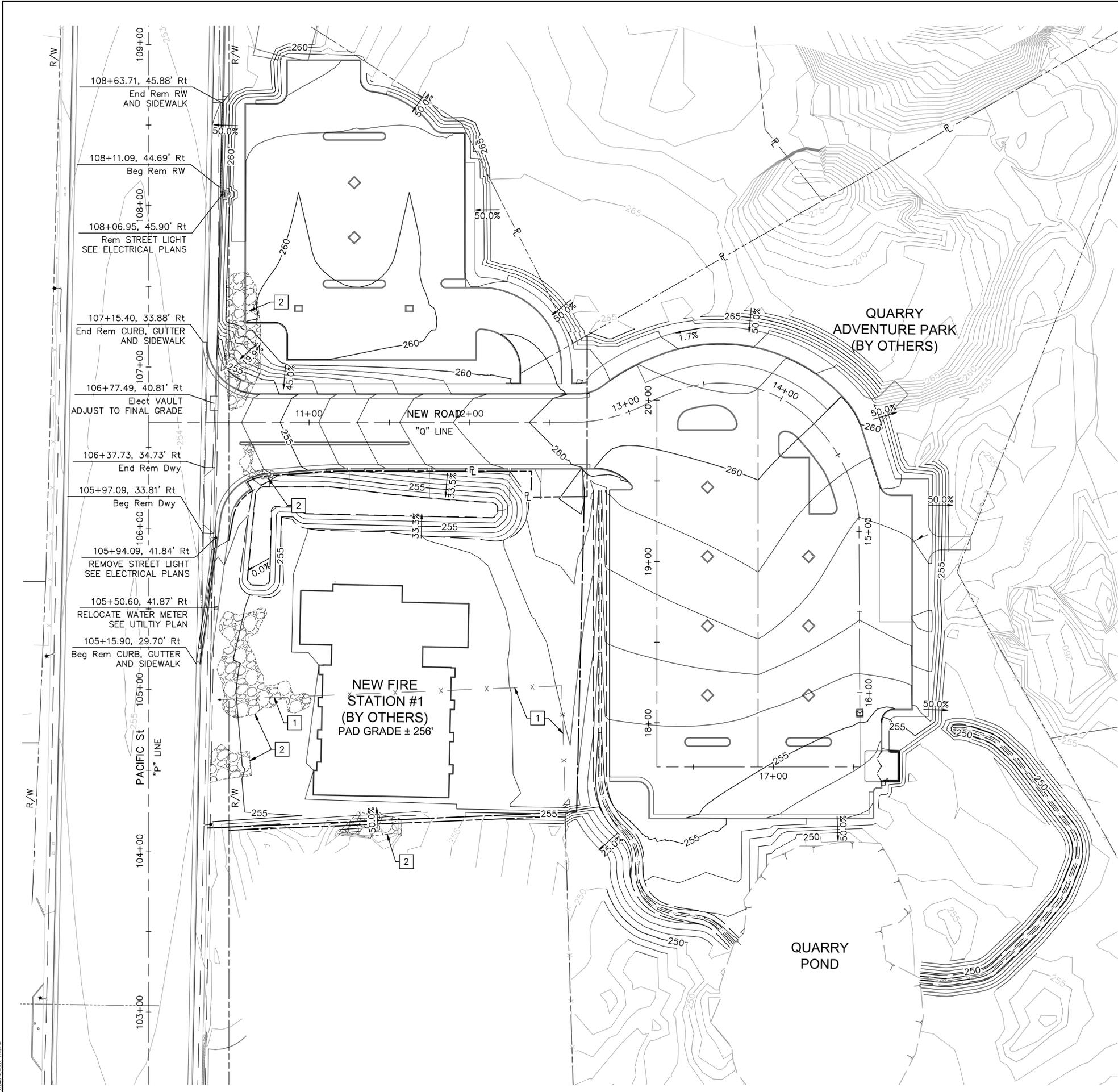
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**LAYOUT PLAN**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

**City of Rocklin**  
4001 AVIS COURT  
ROCKLIN, CA 95667  
(916) 625-5500

REGISTERED PROFESSIONAL ENGINEER  
MARRY MICHAEL W. BAUER  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

|          |              |
|----------|--------------|
| SCALE    | 1" = 30'     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM           |
| FILE     | 2227L001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

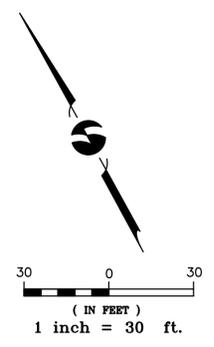


**LEGEND:**

EXISTING CONTOURS

PROPOSED CONTOURS

0.00% PROPOSED SLOPE



**KEY NOTES: (THIS SHEET ONLY)**

1 REMOVE FENCE.

2 REMOVE ROCKS.

**GRADING NOTES:**

1. CONTOURS SHOWN ARE IN 1 FT INCREMENTS.
2. SEE SHEETS DM1 AND DM2 FOR OAK AND NON-OAK TREE REMOVAL PLAN.
3. FOR FINAL GRADES AND SLOPES SEE SHEET FG1.
4. CONTRACTOR SHALL OBTAIN THE REQUIRED PUBLIC LIABILITY INSURANCE AND BLASTING PERMIT FROM THE ROCKLIN POLICE RECORDS UNIT PRIOR TO ANY BLASTING ACTIVITIES.

**811**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

RCE # \_\_\_\_\_

|          |  |
|----------|--|
| DATE     |  |
| REVISION |  |
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also in:  
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1001 N. MARKET ST., SUITE 100  
ROCKLIN, CA 95677  
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**ROUGH GRADING AND DEMO PLAN**

NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of  
**Rocklin**

4091 Ams Court  
Rocklin, CA 95667  
(916) 625-5500

REGISTERED PROFESSIONAL ENGINEER

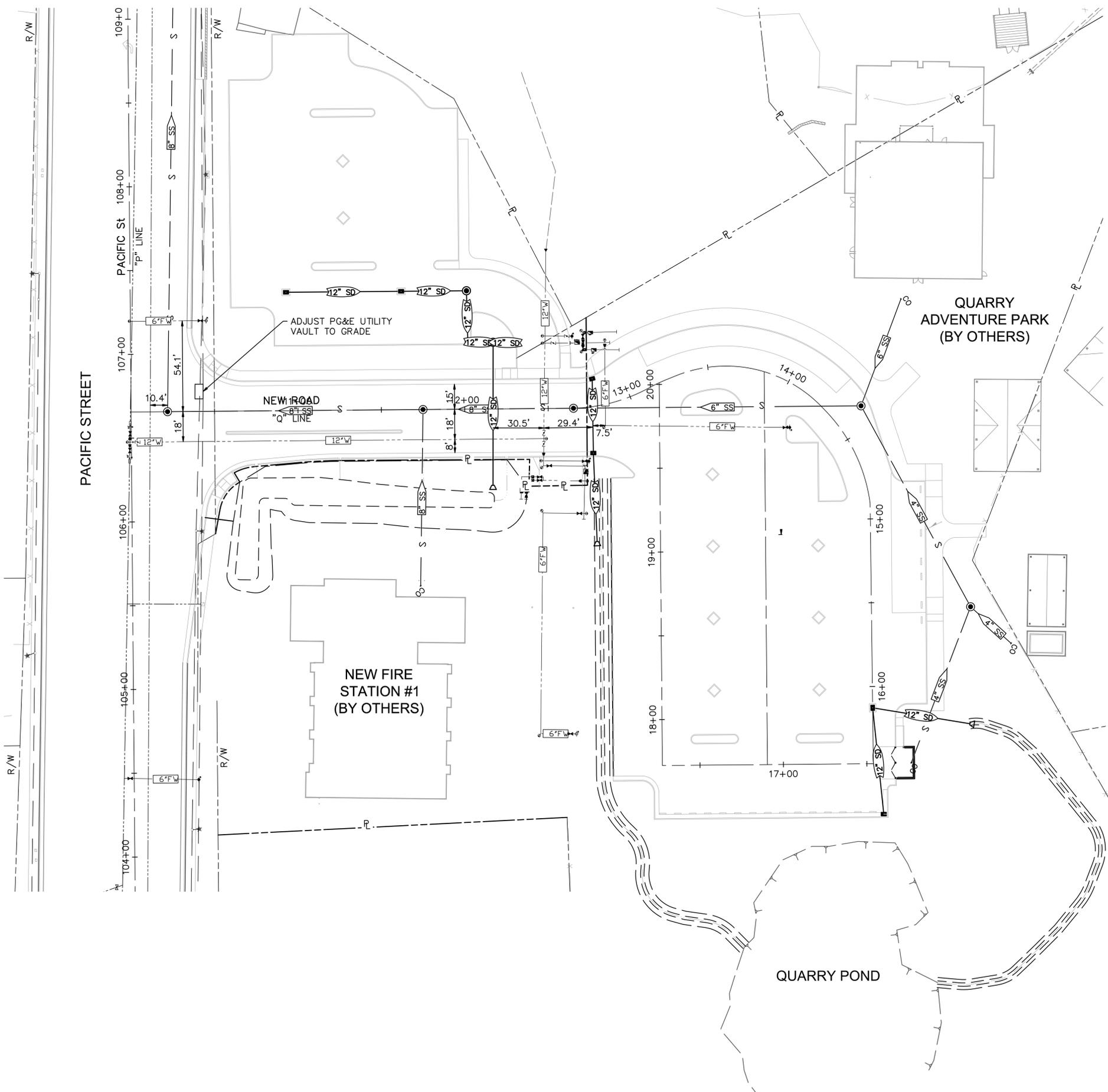
MICHAEL W. WATSON

Exp. 03-31-19

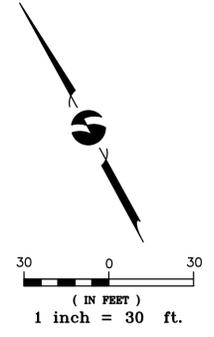
CIVIL

STATE OF CALIFORNIA

|          |              |
|----------|--------------|
| SCALE    | 1" = 30'     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | HD           |
| FILE     | 2227G001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |



- LEGEND:**
- 8" SS SANITARY SEWER
  - 12" SD STORM DRAIN
  - 8" W WATER MAIN
  - F.W. FIRE WATER
  - MANHOLE
  - ⊕ DRAIN INLET
  - ⊕ GATE VALVE
  - ⊕ WATER METER
  - ⊕ WATER BFP
  - .CO SEWER CLEAN OUT



| NO. | REVISION | DATE | BY |
|-----|----------|------|----|
|     |          |      |    |
|     |          |      |    |
|     |          |      |    |
|     |          |      |    |

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Rocklin, CA 95677  
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SW LUT 08/10 & 11/14

**UTILITY PLAN**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

**City of Rocklin**  
4081 Ames Court  
Rocklin, CA 95667  
(916) 625-5500

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to excavation

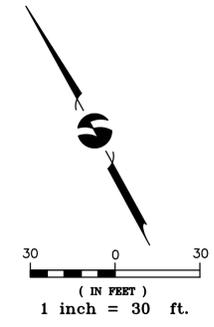
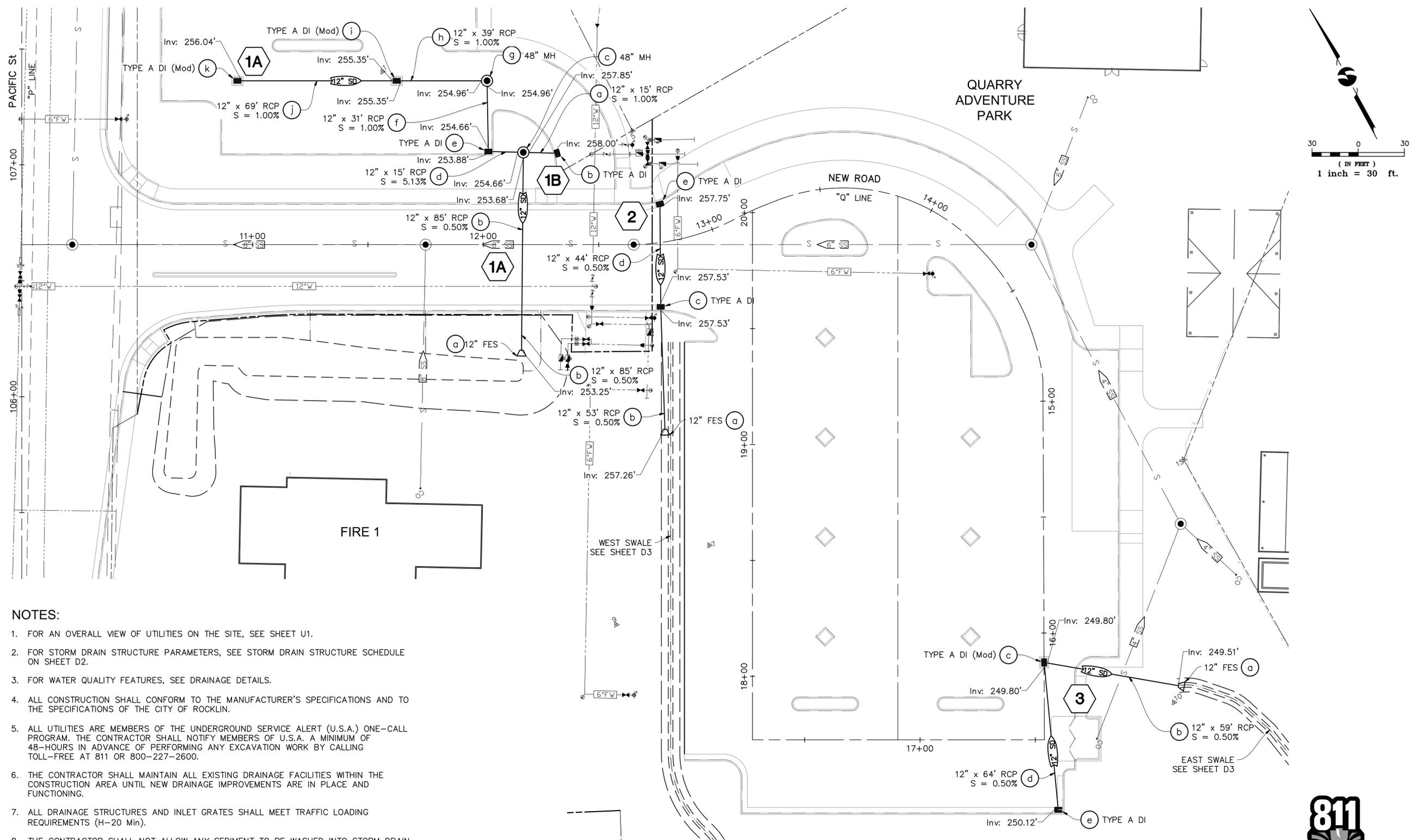
REGISTERED PROFESSIONAL ENGINEER  
MARRY MICHAEL W. WILSON  
No. 229836  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

|          |              |
|----------|--------------|
| SCALE    | 1" = 30'     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM           |
| FILE     | 2227U001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |



- NOTES:**
- FOR AN OVERALL VIEW OF UTILITIES ON THE SITE, SEE SHEET U1.
  - FOR STORM DRAIN STRUCTURE PARAMETERS, SEE STORM DRAIN STRUCTURE SCHEDULE ON SHEET D2.
  - FOR WATER QUALITY FEATURES, SEE DRAINAGE DETAILS.
  - ALL CONSTRUCTION SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND TO THE SPECIFICATIONS OF THE CITY OF ROCKLIN.
  - ALL UTILITIES ARE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE-CALL PROGRAM. THE CONTRACTOR SHALL NOTIFY MEMBERS OF U.S.A. A MINIMUM OF 48-HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL-FREE AT 811 OR 800-227-2600.
  - THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL NEW DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
  - ALL DRAINAGE STRUCTURES AND INLET GRATES SHALL MEET TRAFFIC LOADING REQUIREMENTS (H-20 Min).
  - THE CONTRACTOR SHALL NOT ALLOW ANY SEDIMENT TO BE WASHED INTO STORM DRAIN FACILITIES. SHOULD EXCESSIVE SEDIMENTATION OCCUR, THE CONTRACTOR SHALL BE REQUIRED TO FLUSH OUT AND CLEAN THE FACILITIES AND BE SUBJECT TO APPROVAL BY THE CITY ENGINEER PRIOR TO FINAL ACCEPTANCE.
  - IN THE EVENT THE INSTALLATION OF STORM DRAIN FACILITIES ARE INTERRUPTED BY THE END OF THE WORK DAY OR WEATHER, THE EXPOSED END OF PIPES SHALL BE PROPERLY PLUGGED OR COVERED WITH SEDIMENT CONTROL (FILTER) FABRIC.
  - ALL DRAIN INLETS SHALL BE MARKED PER CITY OF ROCKLIN STANDARD DRAWING 4-24.

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

|          |  |
|----------|--|
| DATE     |  |
| REVISION |  |
| NO.      |  |

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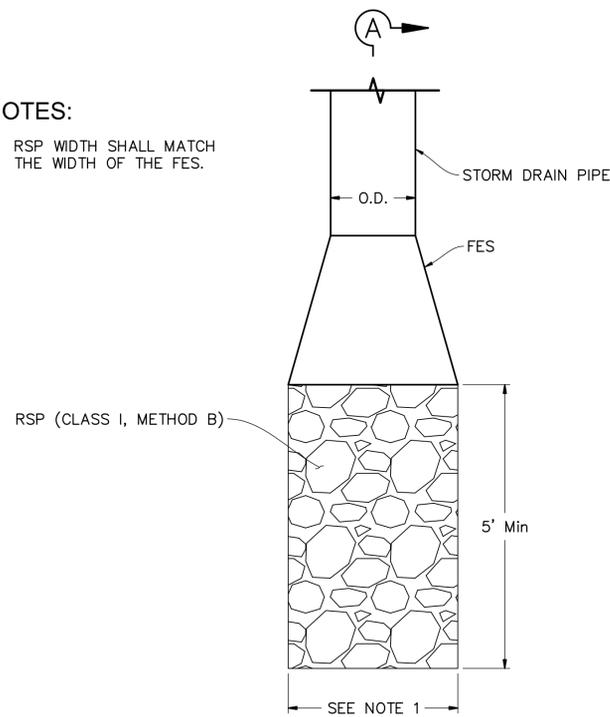
**DRAINAGE PLAN**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of  
**Rocklin**  
4081 AVIS COURT  
ROCKLIN, CA 95667  
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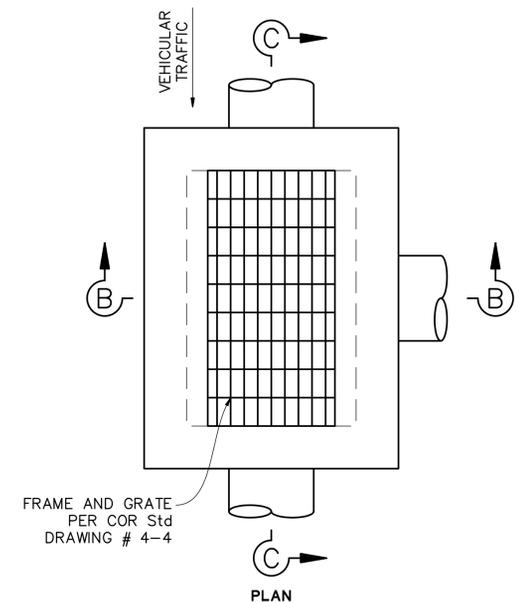
REGISTERED PROFESSIONAL ENGINEER  
MARRY MICHAEL W. WILSON  
No. 429836  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

|          |              |
|----------|--------------|
| SCALE    | 1" = 20'     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | HD           |
| FILE     | 2227D001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

- NOTES:**
- RSP WIDTH SHALL MATCH THE WIDTH OF THE FES.

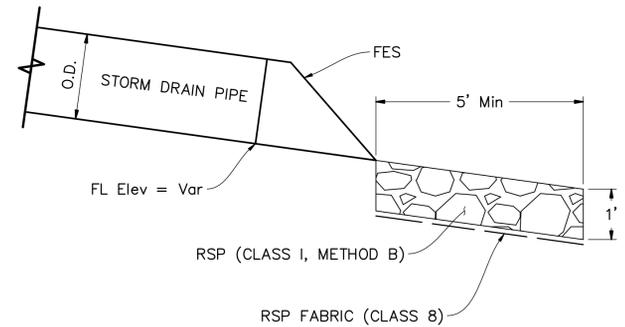


**1 BASIN INLET DETAIL**  
SCALE: NONE

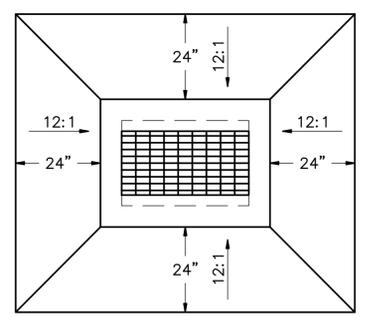
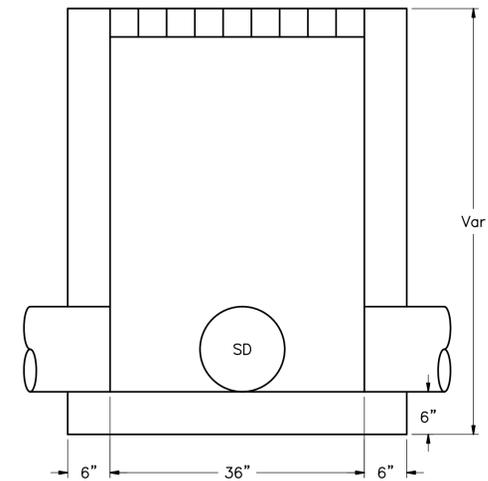
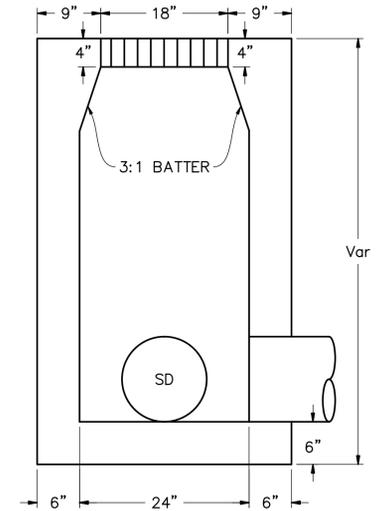


**2 TYPE A DI (Mod)**  
SCALE: NONE

- NOTES:**
- BOTTOM OF INLET SHALL BE PLACED PRIOR TO OR AT THE SAME TIME AS SIDE WALLS.
  - ALL INLETS OVER 48" IN OVERALL HEIGHT SHALL BE REINFORCED WITH #4 REBAR AT 8" O.C.



**3 TYPE A DI (Mod) DEPRESSION**  
SCALE: NONE



| STORM DRAIN STRUCTURE SCHEDULE |               |   |
|--------------------------------|---------------|---|
| DRAINAGE SYSTEM No.            | DRAINAGE UNIT | PARAMETERS  |
| 1A                             | e             | TYPE A DI<br>12+02.17 "Q" LINE<br>40.17' Lt<br>GRATE Elev 260.36'       |
| 1A                             | i             | TYPE A DI (Mod)<br>11+62.42 "Q" LINE<br>70.67' Lt<br>GRATE Elev 259.43' |
| 1A                             | k             | TYPE A DI (Mod)<br>10+93.42 "Q" LINE<br>70.67' Lt<br>GRATE Elev 259.13' |
| 1A                             | g             | 48" MH<br>12+01.60 "Q" LINE<br>70.67' Lt<br>RIM Elev 260.34'            |
| 1A                             | c             | 48" MH<br>12+17.33 "Q" LINE<br>39.78' Lt<br>RIM Elev 260.57'            |
| 1B                             | b             | TYPE A DI<br>12+32.03 "Q" LINE<br>39.41' Lt<br>GRATE Elev 259.78'       |
| 2                              | c             | TYPE A DI<br>12+74.01 "Q" LINE<br>27.54' Rt<br>GRATE Elev 260.04'       |
| 2                              | e             | TYPE A DI<br>12+79.17 "Q" LINE<br>16.47' Lt<br>GRATE Elev 260.11'       |
| 3                              | c             | TYPE A DI (Mod)<br>16+12.72 "Q" LINE<br>0.00'<br>GRATE Elev 255.00'     |
| 3                              | e             | TYPE A DI<br>16+46.10 "Q" LINE<br>30.73' Lt<br>RIM Elev 252.68'         |

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

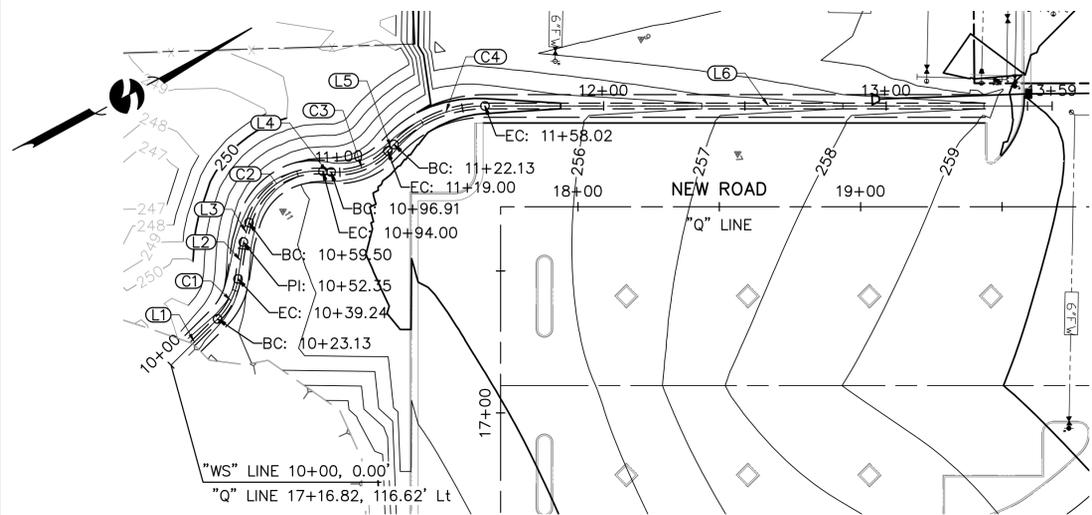
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SW Lic: 00890 & 00891

**DRAINAGE DETAILS**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of  
**Rocklin**  
4081 Ames Court  
Rocklin, CA 95667  
(916) 625-5500

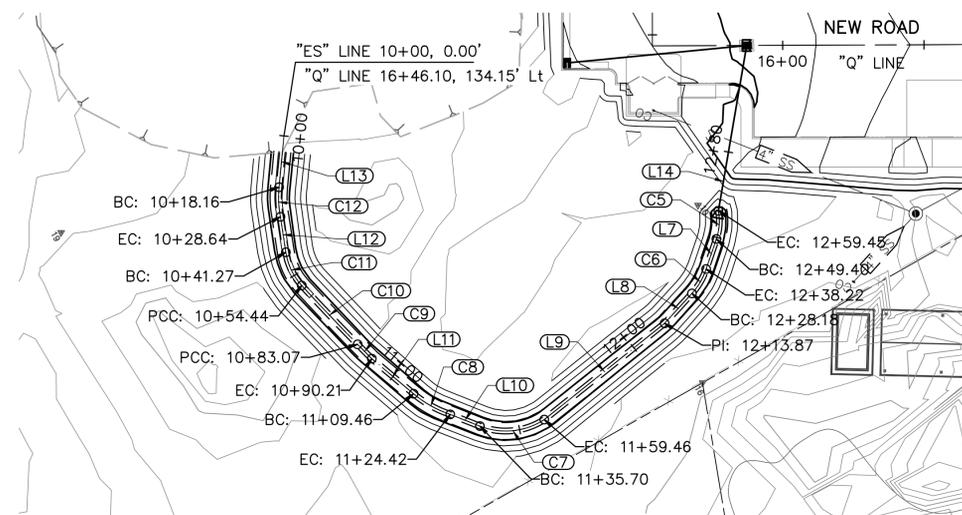
REGISTERED PROFESSIONAL ENGINEER  
MARRY MICHAEL W. WILSON  
Exp 03-31-19  
CIVIL  
STATE OF CALIFORNIA

|          |              |
|----------|--------------|
| SCALE    | NO SCALE     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | HD           |
| FILE     | 2227D001.DWG |
| CHECKED  | LW           |
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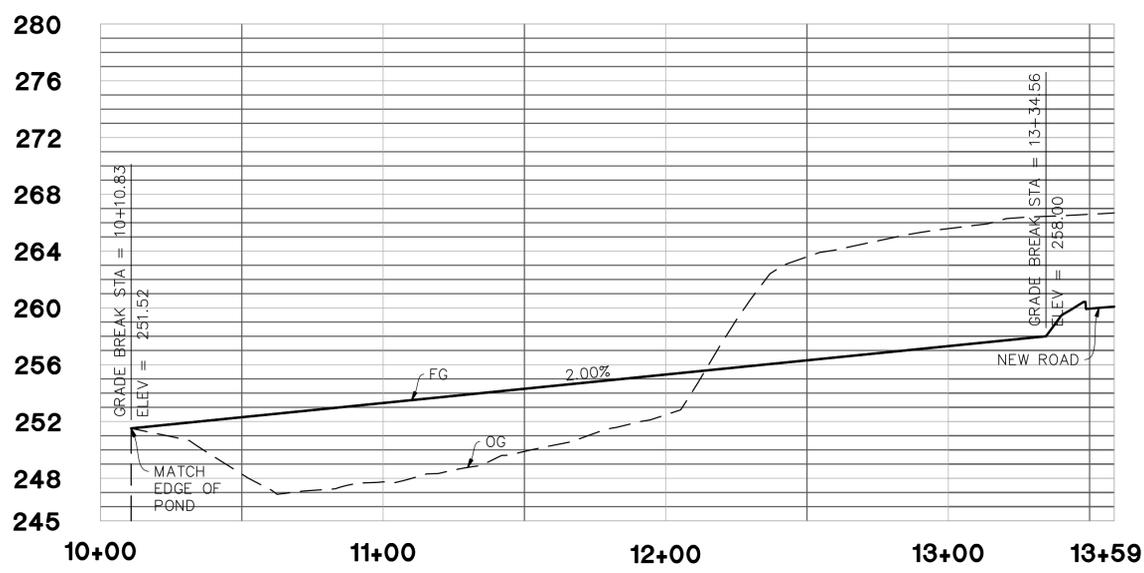
**WEST SWALE PLAN**  
SCALE: 1"=30'

| WEST SWALE |               |         |        |
|------------|---------------|---------|--------|
| CURVE/LINE | BEARING/DELTA | LENGTH  | RADIUS |
| C1         | 36°54'19"     | 16.10'  | 25.00' |
| C2         | 79°04'03"     | 34.50'  | 25.00' |
| C3         | 50°36'55"     | 22.09'  | 25.00' |
| C4         | 45°41'53"     | 35.89'  | 45.00' |
| L1         | N16°02'52"W   | 23.13'  | -      |
| L2         | N52°57'11"W   | 13.12'  | -      |
| L3         | N45°38'01"W   | 7.15'   | -      |
| L4         | N33°26'03"E   | 2.91'   | -      |
| L5         | N17°10'52"W   | 3.13'   | -      |
| L6         | N28°31'00"E   | 200.70' | -      |

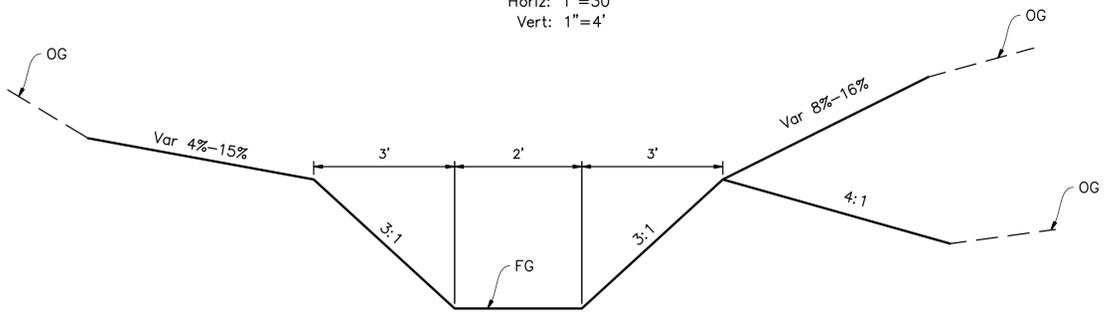


**EAST SWALE PLAN**  
SCALE: 1"=30'

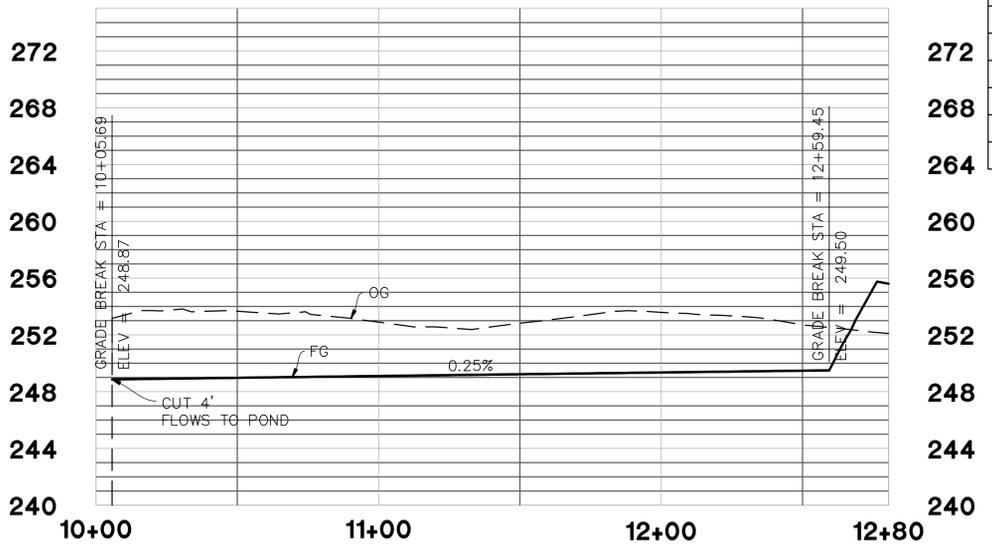
| EAST SWALE |               |        |         |
|------------|---------------|--------|---------|
| CURVE/LINE | BEARING/DELTA | LENGTH | RADIUS  |
| C5         | 29°24'07"     | 10.05' | 19.58'  |
| C6         | 24°36'13"     | 10.04' | 23.39'  |
| C7         | 54°27'10"     | 23.76' | 25.00'  |
| C8         | 21°17'59"     | 14.96' | 40.25'  |
| C9         | 0°28'15"      | 7.14'  | 868.71' |
| C10        | 1°53'17"      | 28.63' | 868.71' |
| C11        | 34°01'50"     | 13.18' | 22.18'  |
| C12        | 16°36'12"     | 10.48' | 36.17'  |
| L7         | N42°34'24"W   | 11.18' | -       |
| L8         | N18°52'28"W   | 14.30' | -       |
| L9         | N10°00'36"W   | 54.42' | -       |
| L10        | N49°59'05"E   | 11.28' | -       |
| L11        | N68°24'06"E   | 19.25' | -       |
| L12        | S70°09'08"E   | 12.63' | -       |
| L13        | S55°57'08"E   | 18.16' | -       |
| L14        | N51°43'46"W   | 21.02' | -       |



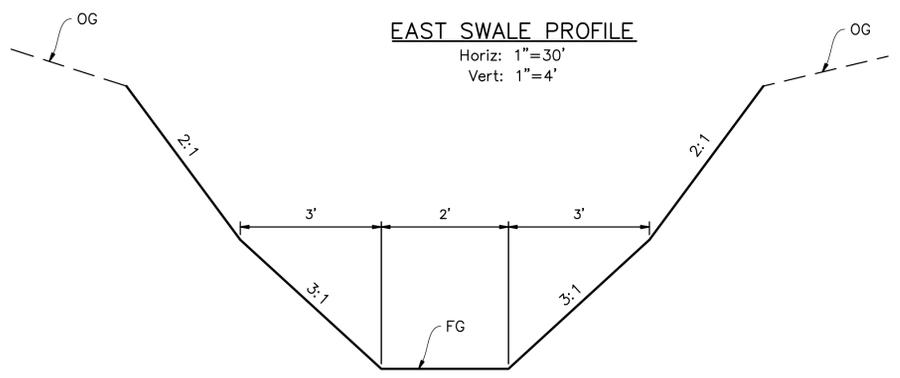
**WEST SWALE PROFILE**  
Horiz: 1"=30'  
Vert: 1"=4'



**WEST SWALE TYPICAL SECTION**  
SCALE: NONE



**EAST SWALE PROFILE**  
Horiz: 1"=30'  
Vert: 1"=4'



**EAST SWALE TYPICAL SECTION**  
SCALE: NONE

**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
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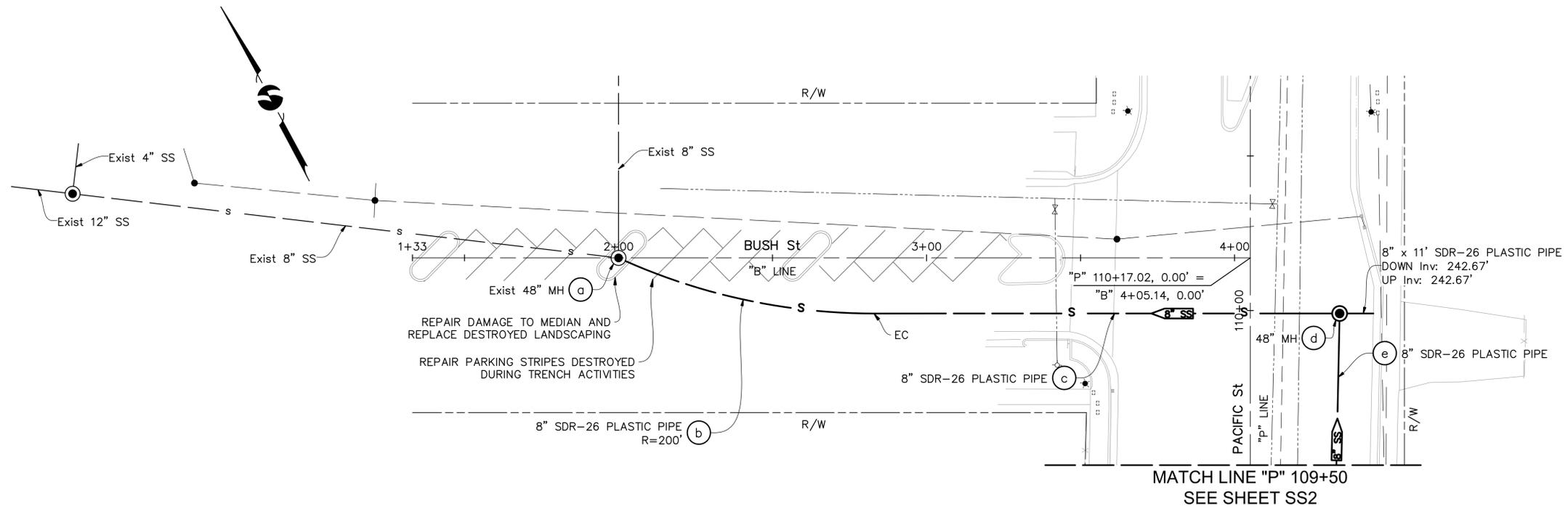
**DRAINAGE DETAILS**  
NEW FIRE STATION ACCESS ROAD AND PARKING LOTS FOR QUARRY ADVENTURE PARK

City of Rocklin  
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Rocklin, CA 95667  
(916) 625-5500



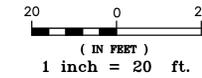
REGISTERED PROFESSIONAL ENGINEER  
MARRY MICHAEL W. WILSON  
Exp 03-31-19  
CIVIL  
STATE OF CALIFORNIA

|          |              |
|----------|--------------|
| SCALE    | AS NOTED     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | HD           |
| FILE     | 2227D001.DWG |
| CHECKED  | LW           |
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SEWER PLAN ONLY APPROVED BY:  
SOUTH PLACER MUNICIPAL UTILITY DISTRICT  
GENERAL MANAGER \_\_\_\_\_ DATE \_\_\_\_\_

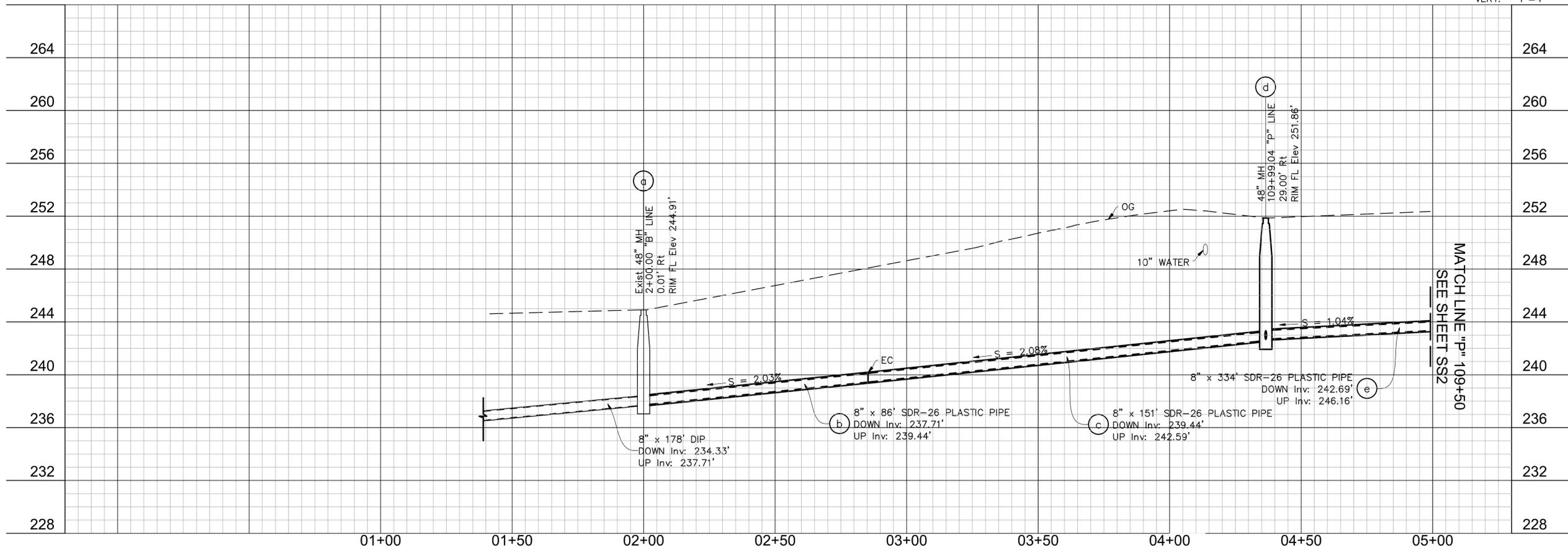


**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

SCALE: HORIZ. 1"=20'  
VERT. 1"=4'



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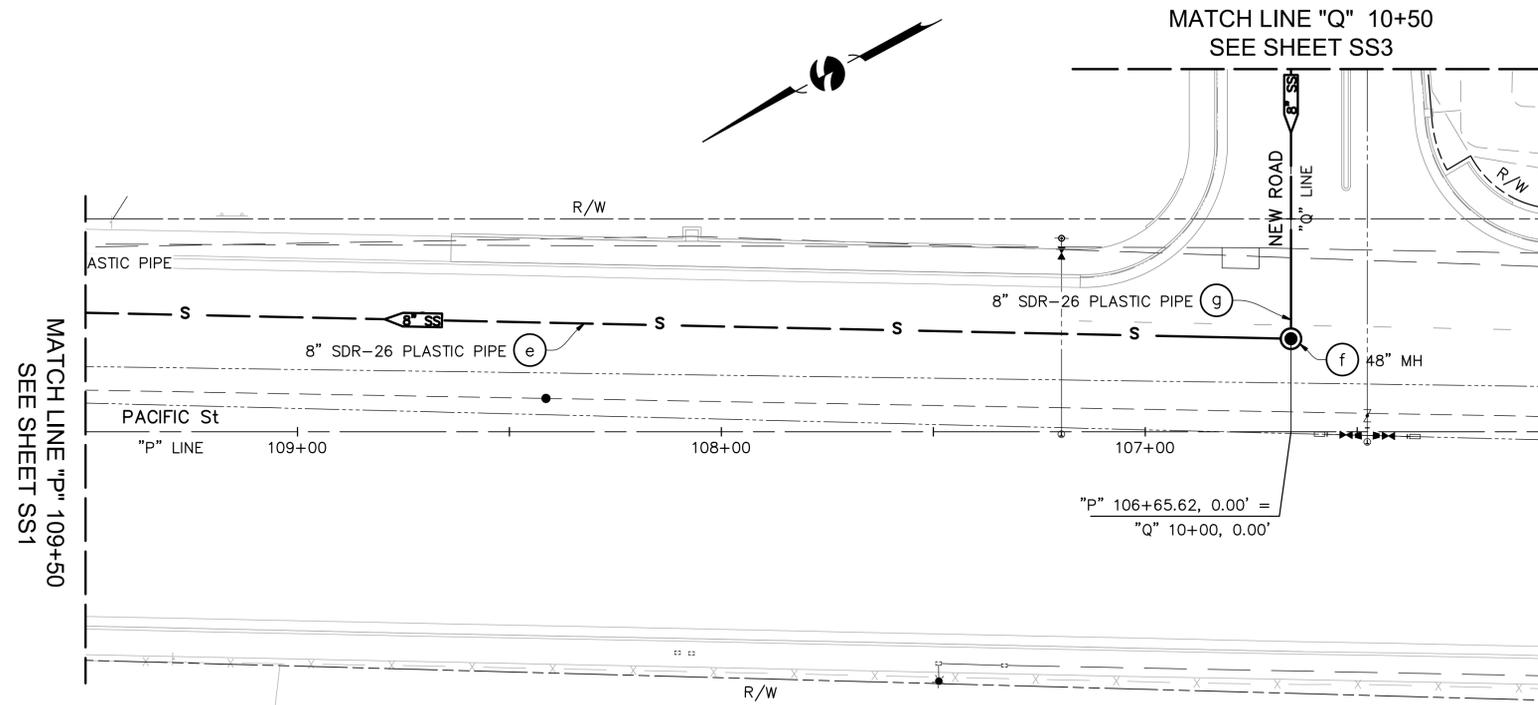
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4801 AVIS COURT  
ROCKLIN, CA 95667  
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www.omnimeans.com

**SEWER PLAN AND PROFILE**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

**City of Rocklin**  
4081 AVIS COURT  
ROCKLIN, CA 95667  
(916) 629-5500

REGISTERED PROFESSIONAL ENGINEER  
MARRY MICHAEL W. WILSON  
C29836  
Exp. 03-31-21  
CIVIL  
STATE OF CALIFORNIA

|          |              |
|----------|--------------|
| SCALE    | 1" = 20'     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | HD           |
| FILE     | 2227P001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

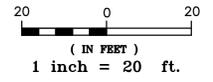


**Know what's below.  
Call before you dig.**

Contractor shall call  
Underground Service Alert at  
811 two working days prior  
to excavation

SEWER PLAN ONLY APPROVED BY:  
SOUTH PLACER MUNICIPAL UTILITY DISTRICT

GENERAL MANAGER \_\_\_\_\_ DATE \_\_\_\_\_

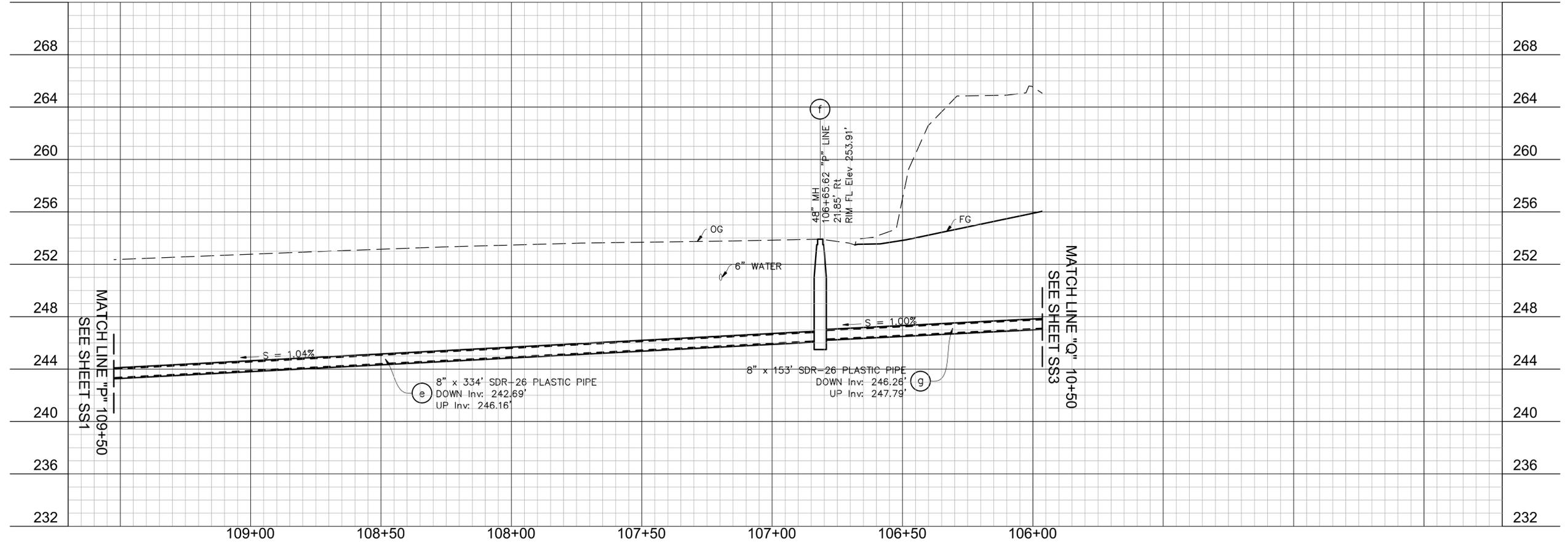


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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
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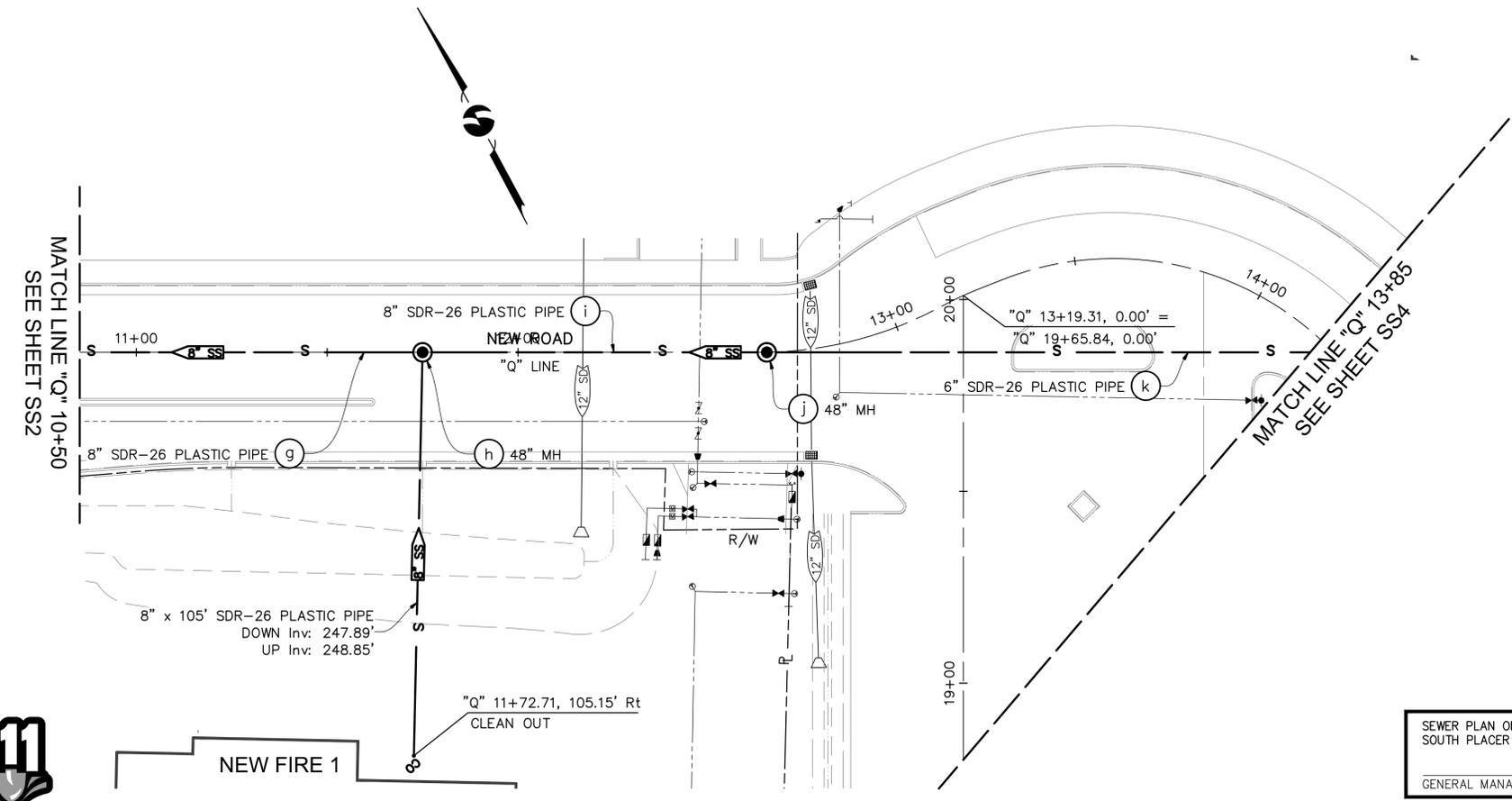
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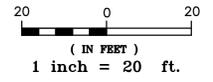
**City of Rocklin**  
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GENERAL MANAGER \_\_\_\_\_ DATE \_\_\_\_\_

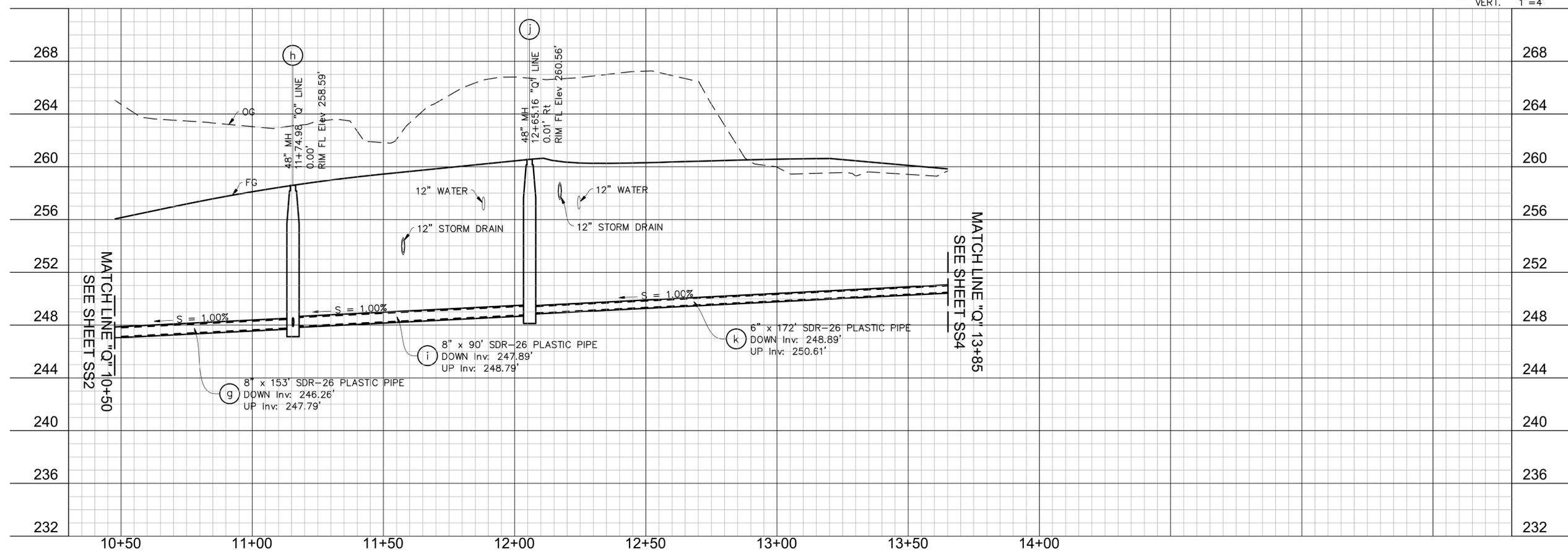


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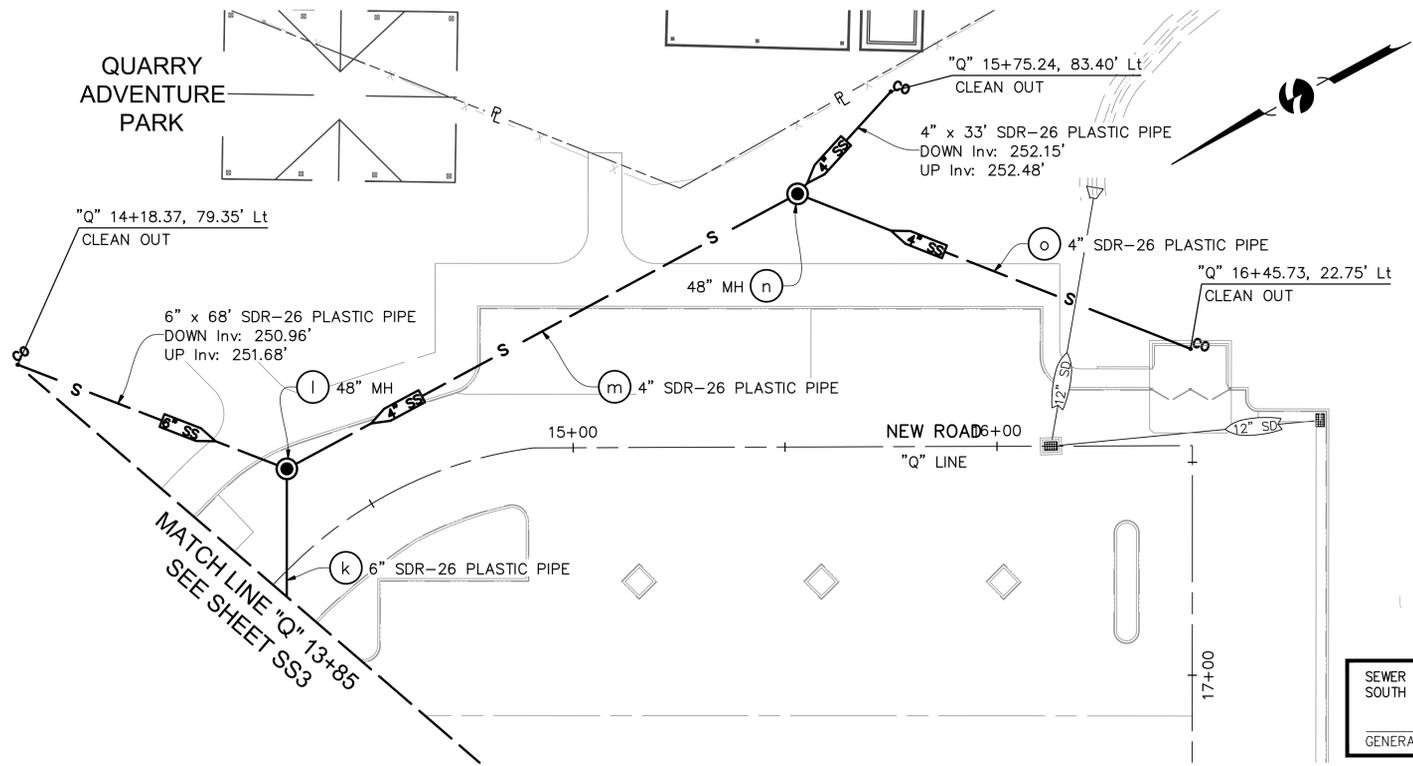
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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE ↓

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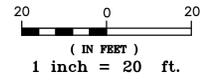


**811**  
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SEWER PLAN ONLY APPROVED BY:  
SOUTH PLACER MUNICIPAL UTILITY DISTRICT

GENERAL MANAGER \_\_\_\_\_ DATE \_\_\_\_\_



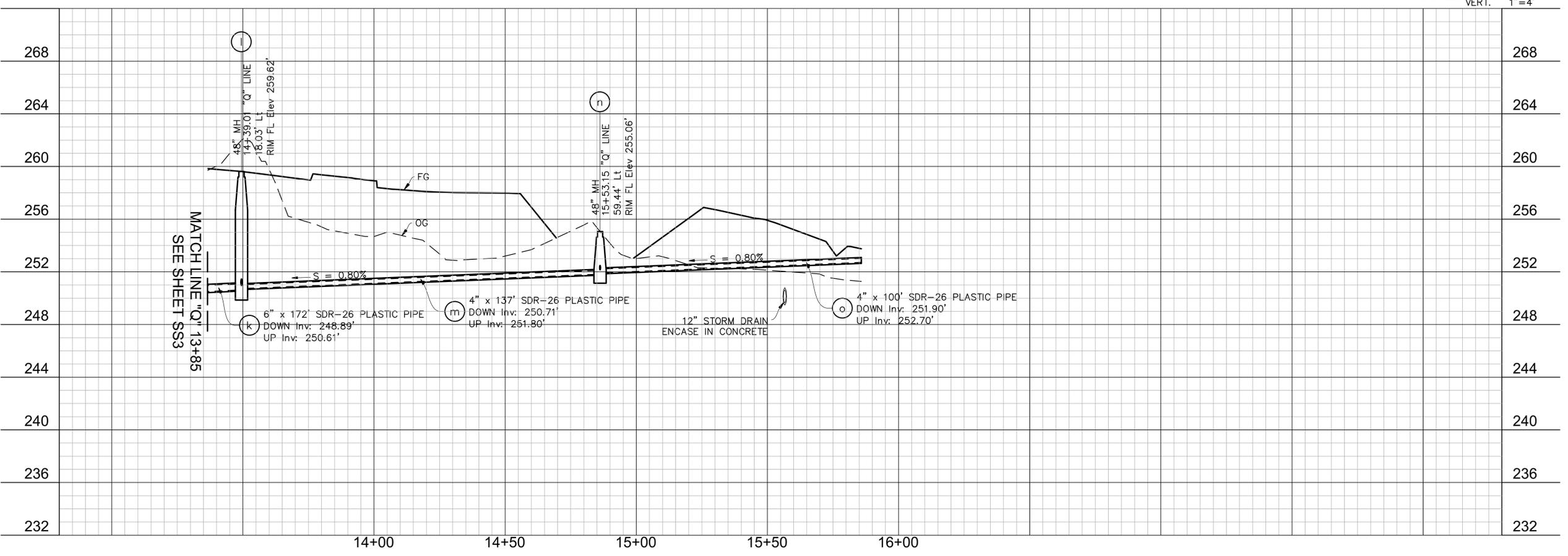
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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE †

SCALE: HORIZ. 1"=20'  
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Contractor shall call Underground Service Alert at 811 two working days prior to excavation



|          |  |
|----------|--|
| BY       |  |
| DATE     |  |
| REVISION |  |
| NO.      |  |

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ROCKLIN, CA 95677  
TEL: 916.227.0800  
WWW.OMNIMEANS.COM

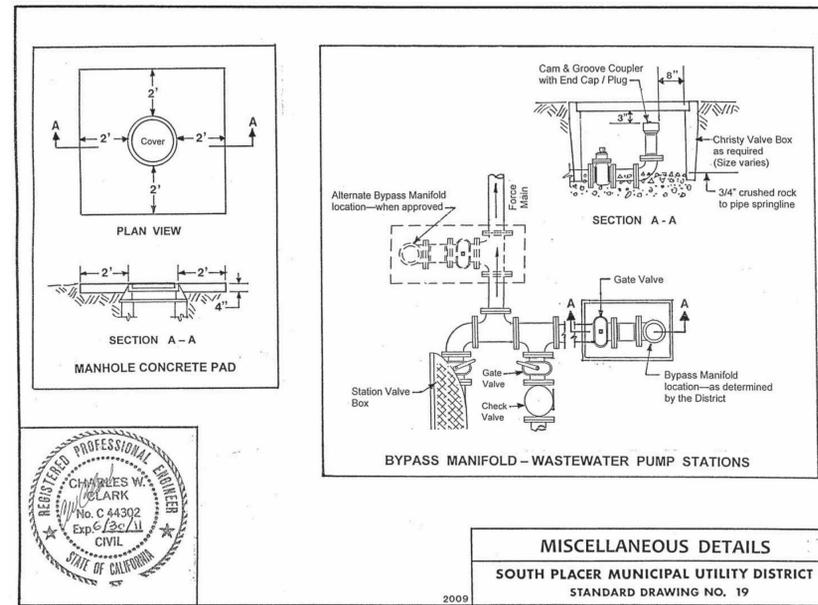
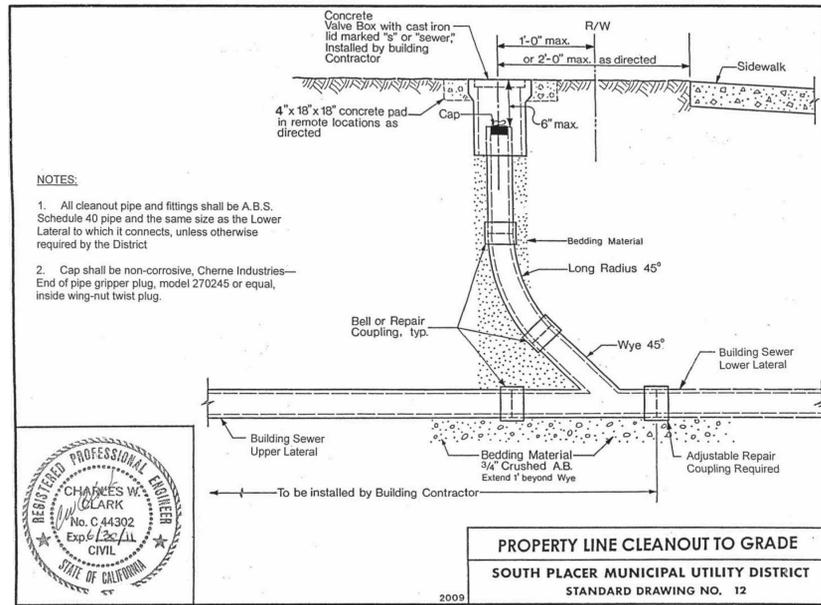
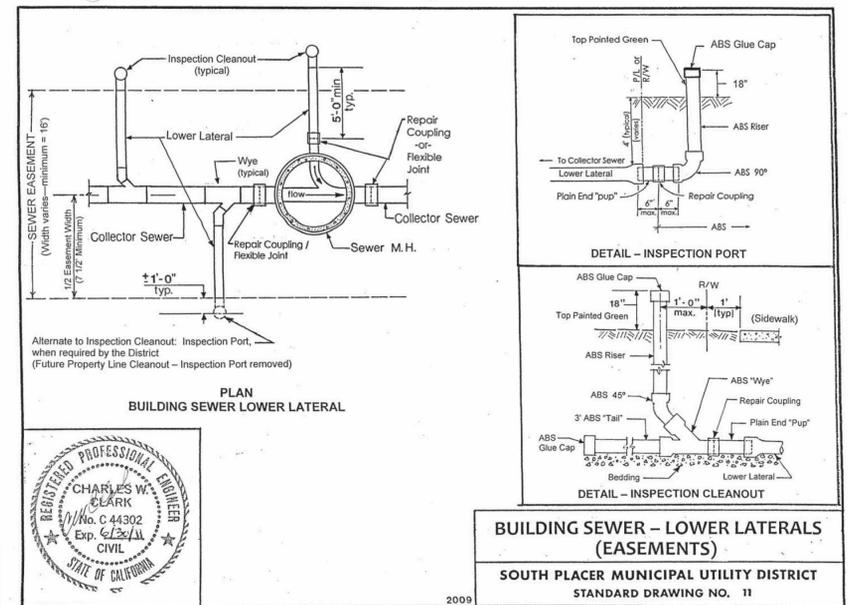
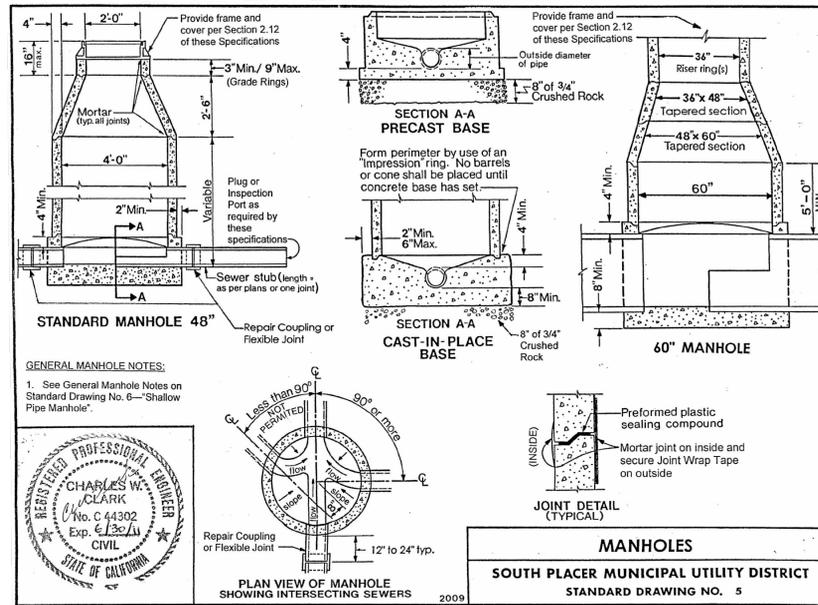
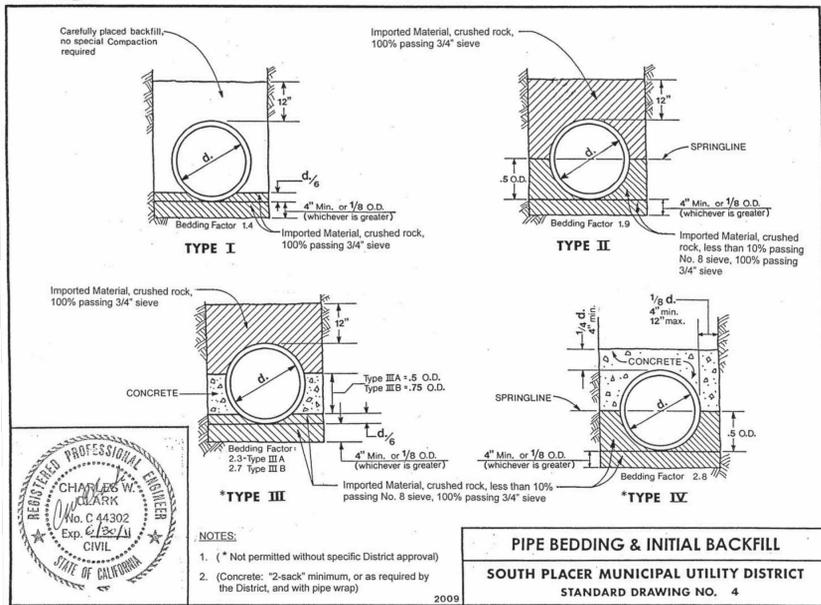
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**SEWER PLAN AND PROFILE**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of  
**Rocklin**  
4081 Ams Court  
Rocklin, CA 95677  
(916) 629-5500

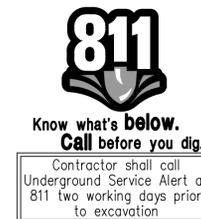
REGISTERED PROFESSIONAL ENGINEER  
MARTY MICHAEL  
C29836  
Exp. 03-31-21  
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| FILE     | 2227P001.DWG |
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- NOTES:**
- ALL SANITARY SEWER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SOUTH PLACER MUNICIPAL UTILITY DISTRICT STANDARD SPECIFICATIONS AND IMPROVEMENT STANDARDS FOR SANITARY SEWERS, LATEST EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL INFORMATION, DRAWINGS, AND REQUIREMENTS FROM SPMUD NECESSARY TO COMPLETE THE WORK SHOWN ON THESE PLANS.
  - THE CONTRACTOR SHALL NOTIFY SPMUD 48 HOURS PRIOR TO THE START OF CONSTRUCTION, AND TO ARRANGE FOR A PRE-CONSTRUCTION CONFERENCE (916)786-8555.
  - ALL SEWER PIPE SHALL BE VITRIFIED CLAY PIPE, EXTRA STRENGTH, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL EXPOSE EXISTING SEWER LINES TO VERIFY LOCATION AND INVERTS PRIOR TO THE PLACEMENT OF PIPE.
  - THE FLOWLINE OF ANY SANITARY SEWER SERVICE ENTERING A MANHOLE SHALL MATCH THE CROWN OF THE EXISTING SEWER MAIN LINE, UNLESS OTHERWISE SHOWN.
  - THE CONTRACTOR SHALL NOTIFY SPMUD FIVE (5) DAYS PRIOR TO SCHEDULED AIR TEST, BALL AND FLUSHING, AND TV INSPECTION (916)786-8555.
  - PORTIONS OF THE EXISTING SEWER ARE SUBJECT TO CLEANING BY THE CONTRACTOR AT THE DIRECTION OF SPMUD PRIOR TO SEWER FINAL.
  - CONFINED SPACE ENTRY (SEWER MANHOLES):** IT IS THE PROJECT OWNER/DEVELOPER'S RESPONSIBILITY AS HOST EMPLOYER TO HAVE A CONFINED SPACE ENTRY PROGRAM IN COMPLIANCE WITH THE REQUIREMENTS OF SECTIONS 5156-5159 OF TITLE 8, GENERAL INDUSTRIAL SAFETY ORDERS, CALIFORNIA CODE OF REGULATIONS. SPMUD'S EXISTING MANHOLES ARE "PERMIT REQUIRED" CONFINED SPACES. THE HOST EMPLOYER'S CONTRACTOR MUST STRICTLY CONFORM TO SPMUD'S PERMIT REQUIRED CONFINED SPACE ENTRY PROGRAM IN ENTERING ANY SPMUD OWNED MANHOLE.
  - THE ENDS OF ALL SEWER SERVICES SHALL HAVE AN INSPECTION CLEANOUT INSTALLED FOR TV INSPECTION PURPOSES. PER SPMUD STANDARD DRAWING 11 (INSPECTION CLEANOUT).

- ANY WATER OR DEBRIS ENTERING THE SEWERS TO BE CONSTRUCTED UNDER THESE PLANS SHALL NOT BE DISCHARGED TO THE EXISTING SEWER SYSTEM. PLUGS OF THE MECHANICAL TYPE, OR AS APPROVED BY SPMUD, SHALL BE INSTALLED IN THE MANHOLES AT THE POINTS OF CONNECTION TO THE EXISTING SYSTEM, AND SHALL BE REMOVED ONLY AT THE DIRECTION OF SPMUD. INFLATABLE DEVICES ARE NOT PERMISSIBLE.
- PRIOR TO THE START OF ANY GRADING OR CONSTRUCTION, THE CONTRACTOR SHALL T.V. INSPECT AND MAY BE REQUIRED TO PERFORM AN ACCEPTANCE TEST (AIR TEST) FOR LEAKAGE ON THE EXISTING SEWER WITHIN THIS PROJECT TO DEMONSTRATE THE CONDITION THEREOF. UPON COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL RE-TEST AND RE-T.V. INSPECT THE SAME EXISTING SEWER. ANY INDICATED ADDITIONAL DAMAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND REPAIRED AT HIS EXPENSE PRIOR TO SEWER FINAL. ALL WORK AND TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN THE PRESENCE OF SPMUD. THE CONTRACTOR IS ADVISED THAT THE SEWER IS SUBJECT TO CLEANING PRIOR TO T.V. INSPECTION.
- UPON PROJECT SEWER COMPLETION AND PRIOR TO FIELD FINAL, A FULL AND COMPLETE SET OF THE IMPROVEMENT PLAN DRAWINGS—AND SHOWING ALL AS-BUILT OR RECORD CHANGES TO THE SEWER—SHALL BE SUBMITTED TO SPMUD IN A DIGITAL VERSION ON CD OR DVD MEDIA IN AN ADOBE ACROBAT (PDF FILE) AND AUTOCAD 2004 FORMAT (EITHER DWG OR DXF FILE, AND BE ON THE FOLLOWING SPMUD COORDINATE SYSTEM: CALIFORNIA COORDINATE SYSTEM STATE PLANE ZONE 2, NAD 1983 (CONUS), US SURVEY FEET.
- ALL SEWER SERVICES SHALL HAVE AN INSPECTION CLEANOUT INSTALLED FOR TV INSPECTION PURPOSES (PER SPMUD STANDARD DRAWING 11). SERVICES WITH DEPTHS GREATER THAN 5 FEET AT THE RIGHT-OF-WAY/PROPERTY LINE MAY BE REQUIRED TO HAVE COMBINATION PARTIAL CLEANOUTS/INSPECTION CLEANOUTS INSTALLED BY THE CONTRACTOR AT THE DIRECTION OF SPMUD.
- SEWER MANHOLES SHALL BE VACUUM TESTED FOR LEAKAGE PER SPMUD REQUIREMENTS.
- BUILDING SHALL NOT BE PHYSICALLY CONNECTED TO SEWER UNTIL ALL REQUIRED SEWER PARTICIPATION FEES HAVE BEEN PAID TO SPMUD, AND THE CONNECTION AUTHORIZED TO BE MADE.



**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

SEWER PLAN ONLY APPROVED BY:  
SOUTH PLACER MUNICIPAL UTILITY DISTRICT  
GENERAL MANAGER \_\_\_\_\_ DATE \_\_\_\_\_

**SEWER DETAILS**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of  
**Rocklin**  
4081 Ave Court  
Rocklin, CA 95667  
(916) 625-5500



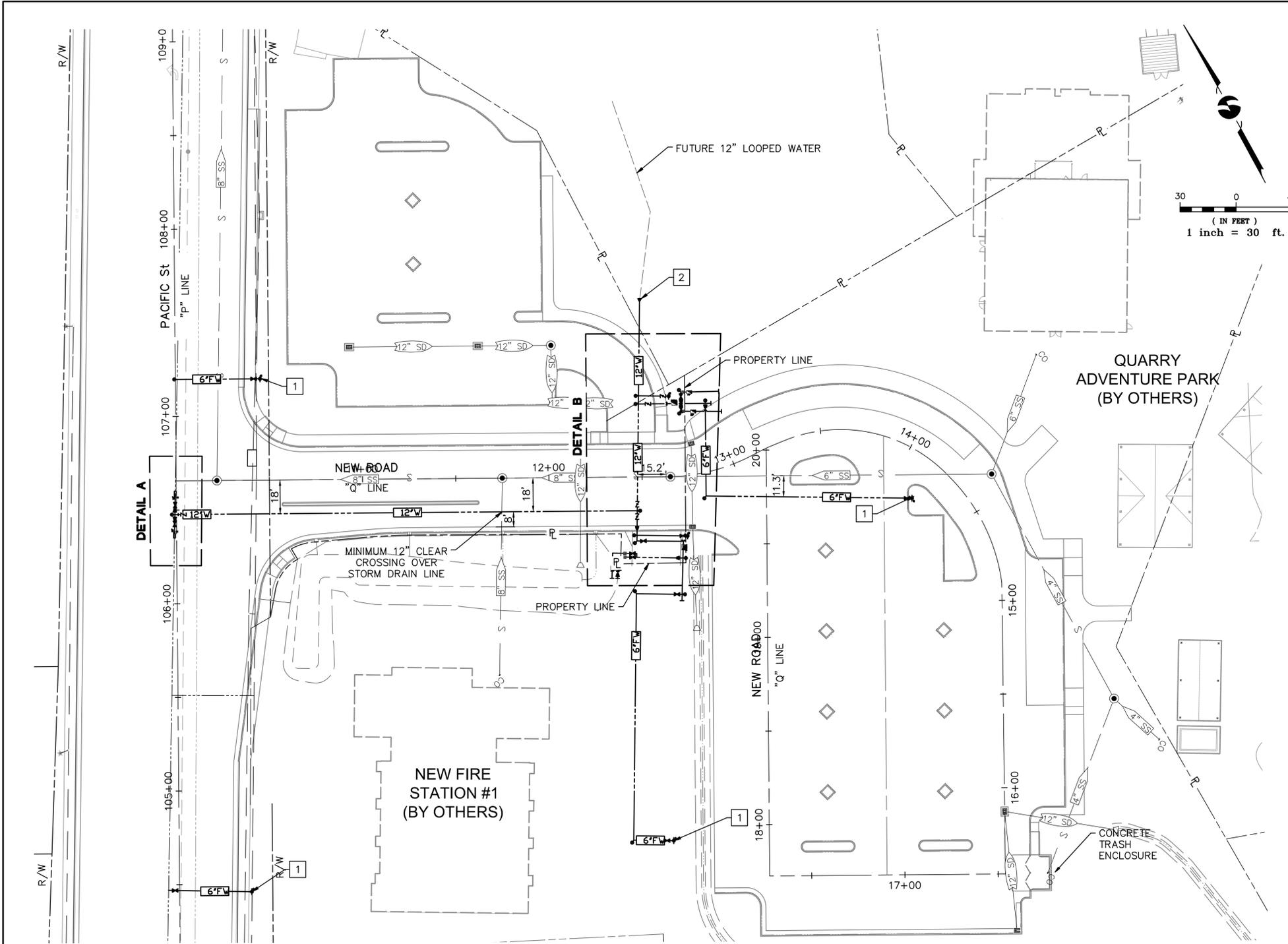
REGISTERED PROFESSIONAL ENGINEER  
MARRY MICHAEL W. WILSON  
No. C 44302  
Exp. 6/30/11  
CIVIL  
STATE OF CALIFORNIA

SCALE NO SCALE  
JOB NO. 25-6000-49  
DESIGNED HD  
DRAWN EM  
FILE 2227P001.DWG  
CHECKED LW  
DATE MAY 11, 2017

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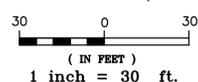
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SACRAMENTO, CA 95833  
(916) 442-1111  
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|          |  |
|----------|--|
| DATE     |  |
| REVISION |  |
| NO.      |  |



**WATER NOTES:**

- FOR ABBREVIATIONS SEE SHEET GN2.
- FOR PCWA STANDARD DRAWINGS SEE SHEETS W2, W3, AND W4.
- ALL WORK TO BE CONDUCTED ON THE WATER LINE SHALL CONFORM TO PCWA STANDARDS AND SPECIFICATIONS, AVAILABLE ONLINE: [http://www.pcwa.net/files/docs/eng/PCWA\\_improvement\\_standards.pdf](http://www.pcwa.net/files/docs/eng/PCWA_improvement_standards.pdf).
- CONTRACTOR SHALL COMPLY WITH PCWA AND OSHA TRENCHING REQUIREMENTS.
- PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET BETWEEN WATER AND SEWER LINES PER PCWA STANDARD DRAWING No. S103.
- PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 4 FEET BETWEEN WATER AND STORM DRAIN LINES PER PCWA STANDARD DRAWING No. S103.
- PROVIDE A MINIMUM OF 12 INCHES CLEARANCE AT LATERAL CROSSING WITH WATER OVER ALL WET UTILITIES.
- ALL WET UTILITIES CROSSING WATER FACILITIES MUST NOT CROSS AT AN ANGLE GREATER THAN 45 DEGREES FROM WHAT WOULD BE A PERPENDICULAR CROSSING.
- PIPE JOINTS SHALL BE MECHANICALLY RESTRAINED WHERE SHOWN ON PLANS.
- PIPE AND APPURTENANCES TO BE DUCTILE IRON PIPE AND BURIED 30-INCHES MINIMUM BELOW FINAL GRADE.
- VALVES 12-INCHES AND LARGER SHALL BE BUTTERFLY VALVES, AND 8-INCHES AND SMALLER SHALL BE GATE VALVES. VALVES SHALL BE INSTALLED PER PCWA STANDARD DRAWING No. S108 AND S109. ALL VALVES SHALL INCLUDE 17-LB ANODE WITH INSTALLATION PER PCWA STANDARD DRAWING No. S112.
- THE NEW 12" WATERLINE SHALL BE CONSTRUCTED IN PLACE AND ALL WORK NEEDED TO CONNECT TO THE EXISTING 10" WATERLINE SHALL BE COMPLETED AND INSPECTED BY PCWA PRIOR TO SCHEDULING A WATER SYSTEM OUTAGE TO MAKE THE CONNECTIONS WITH THE NEW 12" WATERLINE. SEE WATER FACILITIES NOTE No. 7 ON SHEET GN-1 FOR SCHEDULING OF WATER SYSTEM OUTAGE FOR TIE-INS.
- THE INTERIOR OF NEW 12" WATER MAIN PIPE AND THE INTERIOR AND EXTERIOR OF CUT ENDS OF EXISTING PIPE SHALL BE CLEANED AND DISINFECTED IN ACCORDANCE WITH PCWA SPECIFICATIONS.
- ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED AND SOLIDLY BRACED AGAINST THE TRENCH WALL TO PREVENT ANY DEFLECTION DUE TO THRUST PRESSURE.
- INSTALL BOLTS AND GASKETS PER MANUFACTURER'S SPECIFICATION. BOLTS AND GASKETS MUST MEET PCWA STANDARD SPECIFICATIONS.
- CONTRACTOR TO VERIFY SIZE AND TYPE OF EXISTING WATER MAIN PRIOR TO ORDERING TRANSITION COUPLINGS.
- THRUST BLOCKS ARE REQUIRED PER PCWA STANDARD DRAWING No. S111. TEST PRESSURE 150 PSI Max.
- THE CONTRACTOR SHALL PROVIDE TWO WORKING DAYS (48 HOURS) NOTICE TO THE PLACER COUNTY WATER AGENCY INSPECTOR (530)823-4885 PRIOR TO BEGINNING WORK ON WATER FACILITIES AND BY 7:30 A.M. EACH DAY WORK ON WATER FACILITIES OCCURS.
- THE AGENCY'S APPROVAL OF THESE PLANS IS FOR WATER FACILITIES ONLY.
- UNDISCOVERED ERRORS AND OMISSIONS SHALL BE CORRECTED BY OTHERS.
- CONFLICTS WITH OTHER IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF OTHERS.
- ALL FIRE HYDRANTS SHALL BE RESTRAINED FROM BURY THROUGH TEE.
- ALL FIRE HYDRANTS SHALL BE TYPE CLOW 960 OR APPROVED EQUAL.
- NO JOINTS ON MAIN WITHIN 8' OF F.H. TEE.
- SUNSET WTP PRESSURE ZONE, HGL=589', TEST PRESSURE = 233 PSI.
- RADIUSING OF D.I.P. PIPE TO BE ACCOMPLISHED BY PULLING PIPE AT JOINTS AT A MAXIMUM OF 75% OF THE MANUFACTURER'S MAX. ALLOWABLE DEFLECTION.
- JOINT DEFLECTION AND RADIUSING OR BENDING OF PVC PIPE IS NOT ALLOWED. ANGLE FITTINGS REQUIRED AT ALL DEFLECTIONS OF PVC PIPE.
- IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE, IN AREAS WHERE THE STATIC WATER PRESSURE IS IN EXCESS OF 80 PSI, A PRESSURE REGULATOR SHALL BE INSTALLED ON THE CUSTOMER'S SIDE OF THE SERVICE METER. THE PRESSURE REGULATOR SHALL BE OWNED AND MAINTAINED BY THE CUSTOMER.



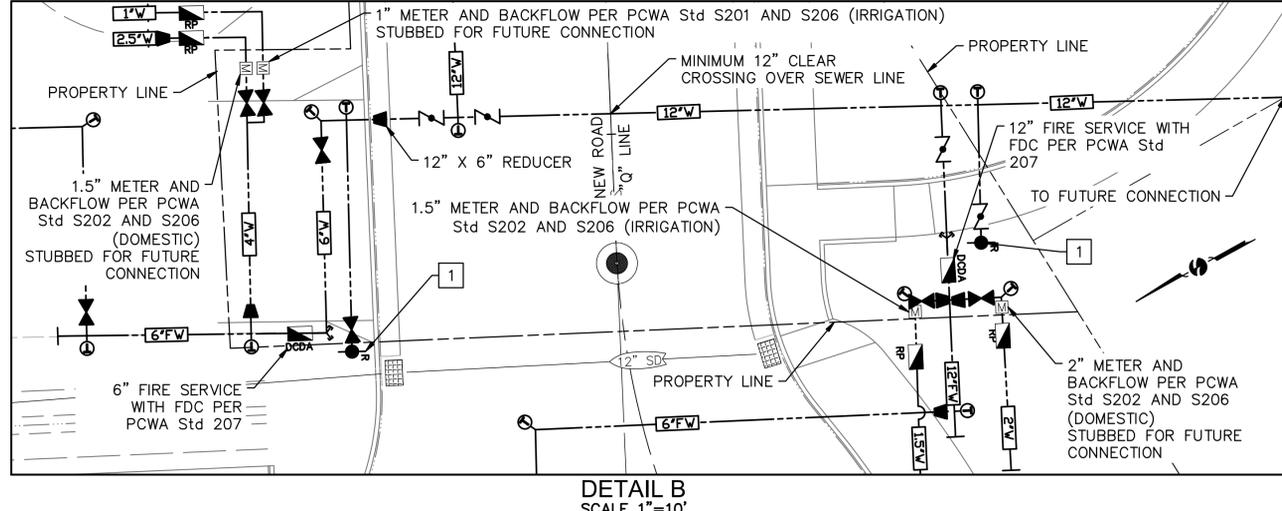
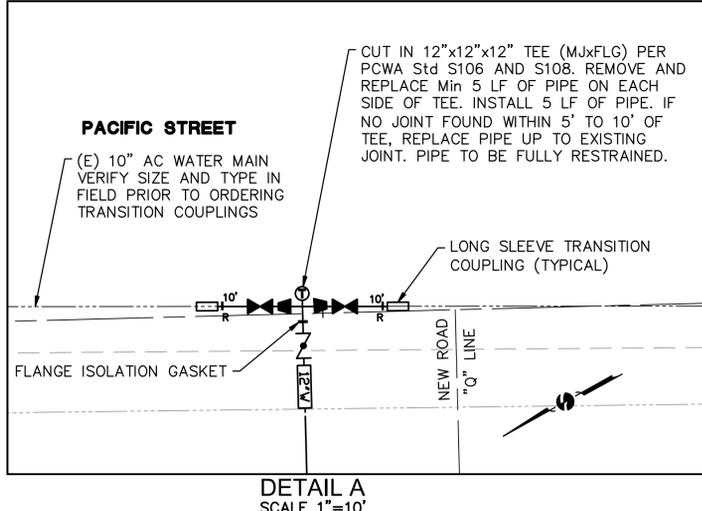
**KEY NOTES: (THIS SHEET ONLY)**

- 1 FIRE HYDRANT ASSEMBLY PER PCWA STD S210
- 2 AIR VACUUM RELEASE VALVE (12") PER PCWA STD S211

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_



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| DATE     |  |
| REVISION |  |
| NO.      |  |

**WATER PLAN**  
NEW FIRE STATION ACCESS ROAD AND PARKING LOTS FOR QUARRY ADVENTURE PARK

|          |              |
|----------|--------------|
| SCALE    | 1" = 30'     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM           |
| FILE     | 2227W001.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

**PIPE TRENCH BEDDING AND BACKFILL**

**ITEM DESCRIPTION**

- 6" MIN. TOPSOIL.
- FINAL BACKFILL SHALL BE 1.5" MINUS AT 90% MIN. COMPACTION.
- INTERMEDIATE BACKFILL, 95% MIN. COMPACTION SEE ROAD-CONTROLLING ENTITY'S SPECIFICATIONS (MUST MEET OR EXCEED AGENCY'S STANDARDS).
- BEDDING, HAUNCHING & INITIAL BACKFILL, 90% MIN. COMPACTION.
- 3/4"-MINUS CRUSHED ROCK WRAPPED IN FILTER FABRIC WITH 18" MIN. OVERLAP WHEN ADDITIONAL FOUNDATION DEPTH IS REQUIRED.
- LOCATING WIRE PER S109
- 12" WIDE WARNING TAPE.
- PIPE SPRINGLINE.
- 3" MIN. ASPHALT CONCRETE, 8" MIN. CLASS 2 AGGREGATE BASE, OR AS REQUIRED BY PLACER COUNTY.

**NOTES:**

- ROAD SECTION SHALL CONFORM TO ROAD-CONTROLLING ENTITY'S SPECIFICATIONS.
- SAW CUT EXISTING PAVEMENT PRIOR TO FINAL REPAIR OR PER ROAD CONTROLLING ENTITY SPECIFICATIONS.
- MOUND SOIL IN UNPAVED SECTION TRENCHING (2" PER FT. OF WIDTH)
- COMPACT HAUNCHING MATERIAL UNDER PIPE BEFORE PLACING ANY MATERIAL ABOVE PIPE SPRINGLINE.
- ELECTRICAL, COMMUNICATIONS, OR GAS UTILITIES, REFER TO S104 FOR OTHERS.
- PLACE PIPE LABEL UP.
- PIPE AND APPURTENANCES TO BE THE GREATER OF 18" MIN. BELOW SUBGRADE OR 30" MIN. BELOW FINAL GRADE (48" MIN. IN COLD CLIMATE AREA). MAX. COVER SHALL BE 60" UNLESS SHOWN AND CALLED OUT ON PLANS AND APPROVED BY AGENCY.

AN APPROVED PRODUCTS LIST IS LOCATED IN APPENDIX D.

| NOMINAL PIPE DIAMETER (IN.) | MIN. SIDEWALL (IN.) |
|-----------------------------|---------------------|
| 1.5 - 8                     | 8                   |
| 12, 16, 18                  | 12                  |
| 24                          | 18                  |
| >30                         | PER PLANS           |

PCWA APPROVED: *Brian C. Martin*  
BRIAN C. MARTIN, P.E. DIRECTOR OF TECHNICAL SERVICES

DRAWING NO. **S101**  
REVISION NO. **0**  
REVISION DATE: **09-09-2015**

**PARALLEL PIPES SEPARATION & COVER**

**KEY PIPELINE CARRYING:**

| ALLOWED | PROHIBITED |
|---------|------------|
| 1       | 1          |
| 2       | 2          |
| 3       | 3          |
| 4       | 4          |
| 5       | 5          |
| 6       | 6          |
| 7       | 7          |
| 8       | 8          |
| 9       | 9          |

**NOTES:**

- NO WATER MAIN SHALL BE INSTALLED WITHIN 100 FT. OF SANITARY LANDFILLS, WASTE DISPOSAL PARKS, OR HAZARDOUS WASTE DISPOSAL SITE.
- NO WATER MAIN SHALL BE INSTALLED WITHIN 25 FT. OF CESSPOOL, SEPTIC TANK, SEWAGE LEACH FIELD, SEWAGE PIT, UNDERGROUND HAZARDOUS MATERIAL STORAGE TANK, OR GROUNDWATER RECHARGE PROJECT SITE. ALL OTHER PIPELINES ALLOWED BEYOND 10 FT.
- SEE ALSO S101 FOR MINIMUM TRENCH SEPARATION REQUIREMENTS FOR PARALLEL PIPELINES.
- SEE APPLICABLE JURISDICTIONAL ENTITIES FOR THEIR REQUIREMENTS REGARDING ALL OTHER PIPELINES.
- 2 FT. MINIMUM SEPARATION FROM TRENCH WALL TO TRENCH WALL.

AN APPROVED PRODUCTS LIST IS LOCATED IN APPENDIX E.

PCWA APPROVED: *Brian C. Martin*  
BRIAN C. MARTIN, P.E. DIRECTOR OF TECHNICAL SERVICES

DRAWING NO. **S103**  
REVISION NO. **0**  
DATE: 09/03/10

**CROSSING PIPES SEPARATION AND COVER**

**KEY PIPELINE CARRYING:**

| ALLOWED | PROHIBITED |
|---------|------------|
| 1       | 1          |
| 2       | 2          |
| 3       | 3          |
| 4       | 4          |
| 5       | 5          |
| 6       | 6          |
| 7       | 7          |
| 8       | 8          |
| 9       | 9          |

**NOTES:**

- ALL PIPES SHALL CROSS AT MINIMUM ANGLE OF 45° HORIZONTAL.
- ALL NEW PIPES SHALL HAVE NO JOINTS WITH IN 8' HORIZONTAL OF THE CROSSING.
- WITH AGENCY AND CALIFORNIA DEPARTMENT OF PUBLIC HEALTH SERVICES APPROVAL, EXEMPTIONS FROM THESE SEPARATIONS MAY BE ALLOWED ON A CASE BY CASE BASIS.
- MINIMUM COVER OVER ALL AGENCY PIPES SHALL BE 2-1/2 FEET.
- SEE APPLICABLE JURISDICTIONAL ENTITIES FOR THEIR REQUIREMENTS REGARDING ALL OTHER PIPELINES.

AN APPROVED PRODUCTS LIST IS LOCATED IN APPENDIX E.

PCWA APPROVED: *Brian C. Martin*  
BRIAN C. MARTIN, P.E. DIRECTOR OF TECHNICAL SERVICES

DRAWING NO. **S104**  
REVISION NO. **0**  
DATE: 09/03/10

**VALVE AND WELL INSTALLATION**

**VALVE WELL DETAILS**

**NOTES:**

- SHOWN AS FLANGED GATE VALVE. 2" THD GATE VALVE AND BUTTERFLY VALVE APPLICATION ARE SIMILAR.
- IF VALVE NUT IS MORE THAN 30" BELOW FINISHED GRADE, INSTALL AN OPERATING EXTENSION, PER S110.
- FOR LOCKING LIDS, SEE S107.
- PROVIDE MAG. ANODE PER S112.
- SET VALVE BOX AT OR 1/4" BELOW PAVEMENT.
- NOTCH EXTENSION TO PLACE WIRE.
- 6" MIN. OVERLAP BETWEEN G5 AND VALVE WELL EXTENSION.
- CENTER VALVE WELL EXTENSION OVER VALVE NUT.

**VALVE INSTALLATION**

ALL VALVES ≥ 4" TO BE FLANGED

**ITEM DESCRIPTION**

- 8" SDR 35 PVC VALVE WELL EXTENSION (ONE CONTINUOUS LENGTH OF PIPE)
- CONCRETE VALVE BOX WITH CAST IRON TRAFFIC LID
- 6"x6" CONCRETE PAD W/#4 REBAR
- GATE VALVE
- ACTUATOR
- 1 CUBIC FOOT CRUSHED ROCK
- MxFLG ADAPTER
- TEE
- FINISHED GRADE
- LOCATING WIRE PER S109

AN APPROVED PRODUCTS LIST IS LOCATED IN APPENDIX E.

PCWA APPROVED: *Brian C. Martin*  
BRIAN C. MARTIN, P.E. DIRECTOR OF TECHNICAL SERVICES

DRAWING NO. **S106**  
REVISION NO. **0**  
DATE: 09/03/10

**LOCKING VALVE BOX**

**ITEM DESCRIPTION**

- VALVE BOX AND LID PER S106
- CONCRETE COLLAR W/#4 REBAR PER S106
- 12" LONG RETAINER CHAIN SECURED TO INSIDE OF VALVE WELL
- PADLOCK HASP HOLE
- SLIDING BAR, RB 1"

**NOTES:**

- OUT (2) 1-1/4" HOLES IN VALVE BOX 180 DEGREES APART. SEAL OFF HOLES WHEN CASTING CONCRETE COLLARS.
- SEE S106 FOR VALVE BOX INSTALLATION REQUIREMENTS.

AN APPROVED PRODUCTS LIST IS LOCATED IN APPENDIX E.

PCWA APPROVED: *Brian C. Martin*  
BRIAN C. MARTIN, P.E. DIRECTOR OF TECHNICAL SERVICES

DRAWING NO. **S107**  
REVISION NO. **0**  
DATE: 09/03/10

**VALVE CLUSTER**

**ITEM DESCRIPTION**

- BUTTERFLY VALVE OPERATING NUT LOCATION IN VALVE WELL EXTENSION PER S106, TYP.
- TRACING WIRE
- SPLICE PER S109, TYP.
- GATE VALVE, VALVE BOX, VALVE WELL EXTENSION PER S106, TYP.

**NOTES:**

- PROVIDE 12" LONG FLOGLG SPOOL BETWEEN VALVE AND TEE/CROSS ON ALL BRANCHES IF A BVV IS USED ON ANY BRANCH.
- SHOWN FOR CROSS INSTALLATION, SIMILAR FOR TEE INSTALLATION.

AN APPROVED PRODUCTS LIST IS LOCATED IN APPENDIX E.

PCWA APPROVED: *Brian C. Martin*  
BRIAN C. MARTIN, P.E. DIRECTOR OF TECHNICAL SERVICES

DRAWING NO. **S108**  
REVISION NO. **0**  
DATE: 09/03/10

**811**

Know what's below.  
Call before you dig.

Contractor shall call Underground Service Alert at 811 two working days prior to excavation

**RECORD DRAWING**

ALL INFORMATION SHOWN ON THESE PLANS HAVE BEEN PREPARED BY, OR UNDER THE DIRECTION OF, THE UNDERSIGNED ENGINEER. ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION ARE INCLUDED HEREIN WHEN THE PROJECT ENGINEER IS ADVISED IN WRITING OF SUCH CHANGE BY THE OWNER, DEVELOPER, CONTRACTOR OR THE CITY OF ROCKLIN.

PROJECT ENGINEER: **RCE**      DATE: \_\_\_\_\_

|          |              |
|----------|--------------|
| SCALE    | NO SCALE     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM           |
| FILE     | 2227W002.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

**W2**

23 OF 44

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4081 Ams Court  
Rocklin, CA 95667  
(916) 625-5500

**WATER DETAILS (PCWA)**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

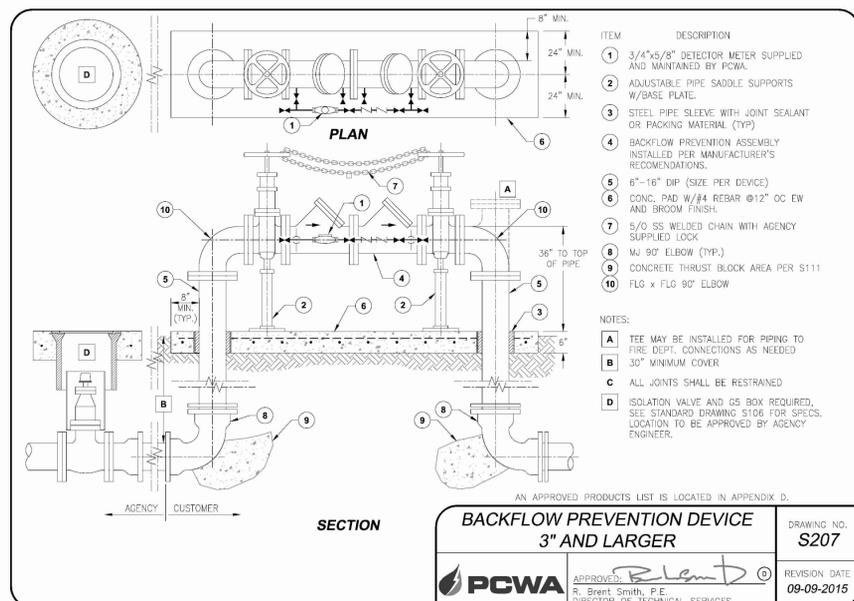
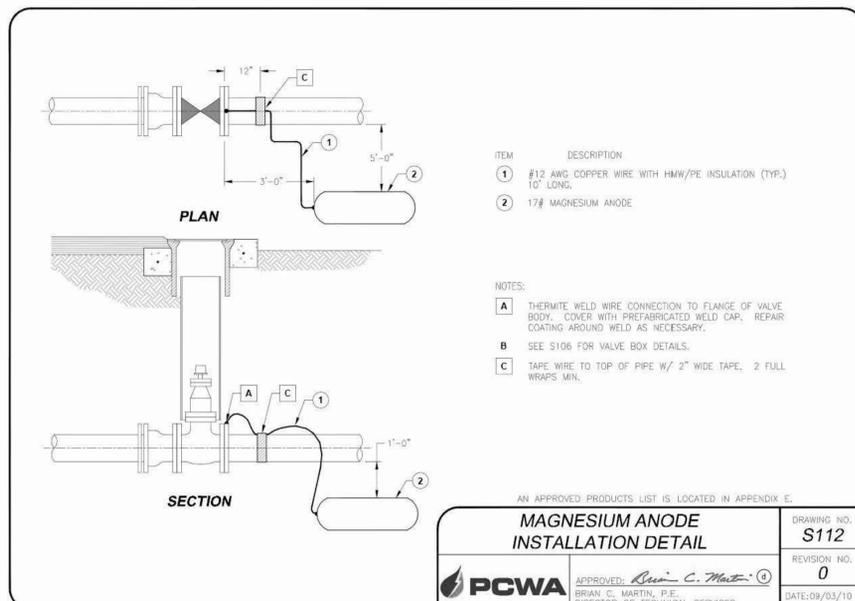
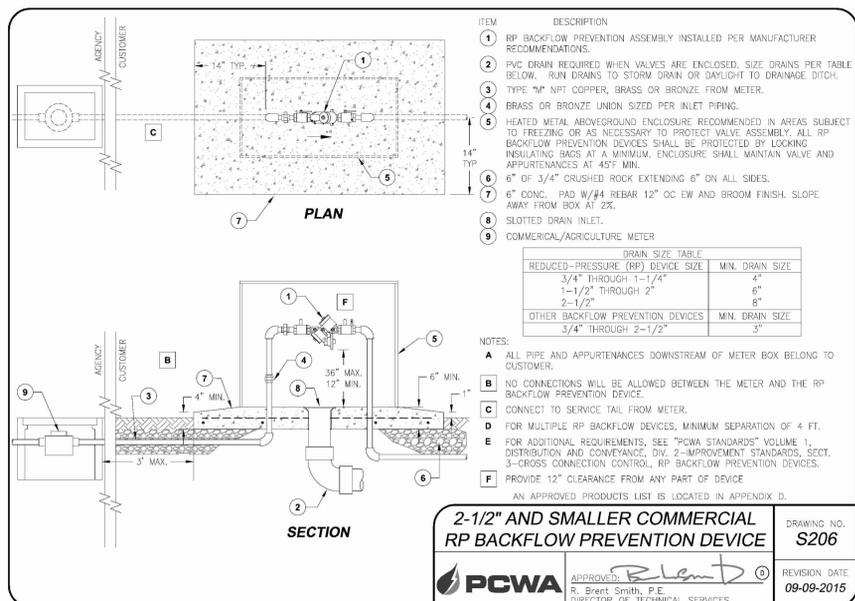
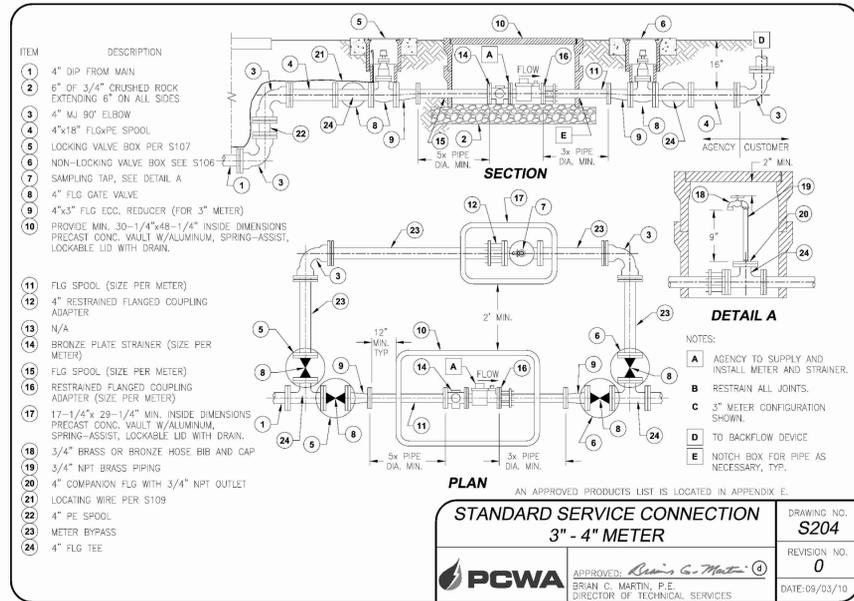
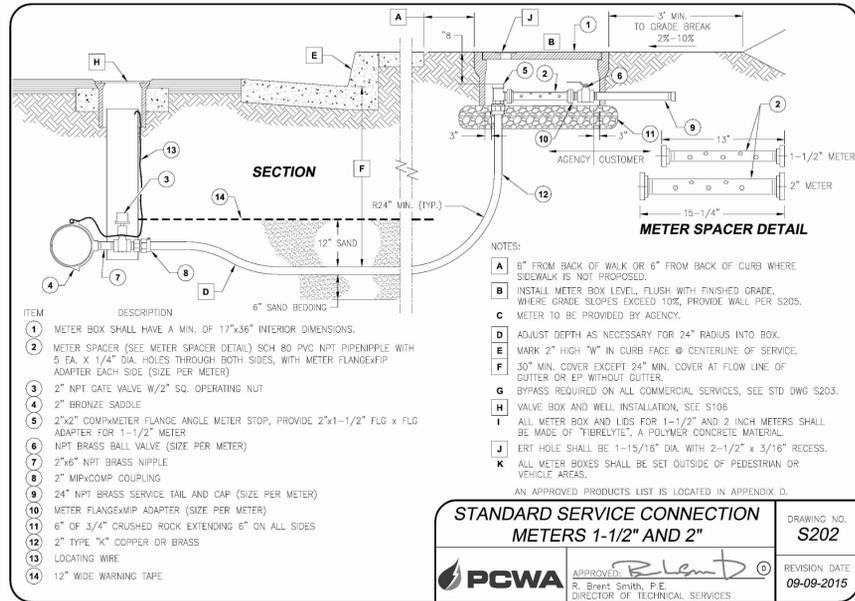
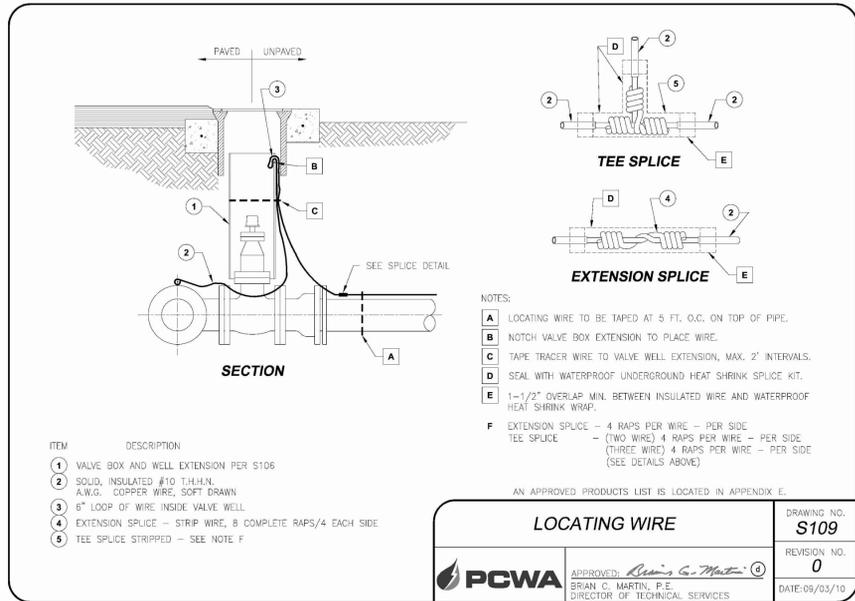
City of Rocklin  
4081 Ams Court  
Rocklin, CA 95667  
(916) 625-5500

REGISTERED PROFESSIONAL ENGINEER  
MARTIN MICHAEL W. WILSON  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

SCALE: NO SCALE  
JOB NO.: 25-6000-49  
DESIGNED: HD  
DRAWN: EM  
FILE: 2227W002.DWG  
CHECKED: LW  
DATE: MAY 11, 2017

**W2**

23 OF 44



|          |  |
|----------|--|
| DATE     |  |
| REVISION |  |
| NO.      |  |

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 SACRAMENTO, CA 95833  
 (916) 486-1000  
 www.omnimeans.com

DATE: 09/03/10

**WATER DETAILS (PCWA)**  
 NEW FIRE STATION ACCESS ROAD  
 AND PARKING LOTS FOR QUARRY  
 ADVENTURE PARK

City of  
**Rocklin**  
 4081 Ames Court  
 Rocklin, CA 95667  
 (916) 625-5500

**811**  
 Know what's below.  
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 Contractor shall call  
 Underground Service Alert at  
 811 two working days prior  
 to excavation

|          |              |
|----------|--------------|
| SCALE    | NO SCALE     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | EM           |
| FILE     | 2227W002.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |

**W3**

24 OF 44

**RECORD DRAWING**

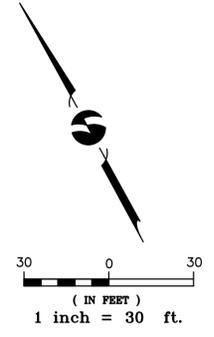
ALL INFORMATION SHOWN ON THESE PLANS HAVE BEEN PREPARED BY, OR UNDER THE DIRECTION OF, THE UNDERSIGNED ENGINEER. ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION ARE INCLUDED HEREIN WHEN THE PROJECT ENGINEER IS ADVISED IN WRITING OF SUCH CHANGE BY THE OWNER, DEVELOPER, CONTRACTOR OR THE CITY OF ROCKLIN.

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 RCE # \_\_\_\_\_





**LEGEND:**  
 000.00 / XX PROPOSED GRADING TAG  
 0.00% PROPOSED SLOPE



**GRADING NOTES:**

1. ALL MATERIALS AND WORKMANSHIP FOR SITE WORK SHALL CONFORM TO THESE PLANS, THE CURRENT STANDARD DETAILS AND SPECIFICATIONS FOR THE CITY OF ROCKLIN.
2. THE CONTRACTOR SHALL NOTIFY THE CITY OF ROCKLIN DEPARTMENT OF PUBLIC WORKS AT LEAST 2 WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WITH THE APPROPRIATE AGENCIES PRIOR TO CONSTRUCTION.
4. ALL CONSTRUCTION OF UTILITIES SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF EACH UTILITY AGENCY.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING THE DISCOVERY OF ANY CONFLICTS OF DISCREPANCIES IN THE PLANS.
6. CARE SHOULD BE TAKEN TO AVOID DAMAGE TO EXISTING FEATURES. IF A FEATURE IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
7. ALL TRENCHES 5' IN DEPTH OR GREATER SHALL BE SHORED AND BRACED ACCORDING TO STATE LAW.
8. DURING GRADING OPERATION, THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURE.
9. PROTECT ALL EXISTING UNDERGROUND FACILITIES DURING CONSTRUCTION. IF DAMAGED, REPAIR SAME TO OWNER'S SATISFACTION.



**Know what's below.  
 Call before you dig.**  
 Contractor shall call  
 Underground Service Alert at  
 811 two working days prior  
 to excavation

**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 RCE # \_\_\_\_\_

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 1007 N. W. 10th Street, Sacramento, CA 95834  
 916.442.2222  
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**FINISHED GRADING PLAN**  
 NEW FIRE STATION ACCESS ROAD  
 AND PARKING LOTS FOR QUARRY  
 ADVENTURE PARK

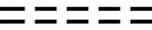
**City of Rocklin**  
 4091 Ames Court  
 Rocklin, CA 95667  
 (916) 625-5500

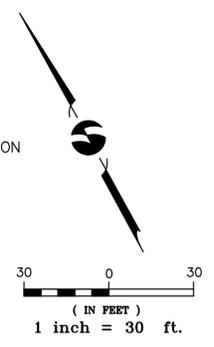
REGISTERED PROFESSIONAL ENGINEER  
 MARY MICHAEL W. WILSON  
 No. 229836  
 Exp. 03-31-19  
 CIVIL  
 STATE OF CALIFORNIA

|          |              |
|----------|--------------|
| SCALE    | 1" = 30'     |
| JOB NO.  | 25-6000-49   |
| DESIGNED | HD           |
| DRAWN    | HD           |
| FILE     | 2227G002.DWG |
| CHECKED  | LW           |
| DATE     | MAY 11, 2017 |



**LEGEND:**

-  APPROVED LINEAR SEDIMENT CONTROL.
-  CONCRETE WASHOUT AREA. SEE DETAIL 5 ON SHEET EC2.
-  STABILIZED CONSTRUCTION ENTRANCE. SEE DETAIL 2 ON SHEET EC2.
-  DRAINAGE INLET



**KEY NOTES: (THIS SHEET ONLY)**

- 1** DRAINAGE INLET PROTECTION. SEE DETAIL 1 ON SHEET EC2.
- 2** AREA DRAIN INLET PROTECTION.
- 3** STABILIZED CONSTRUCTION ENTRANCE. SEE DETAIL 2 ON SHEET EC2.
- 4** SLOPE PROTECTION. SEE DETAIL 3 ON SHEET EC2.
- 5** TEMPORARY CHECK DAM

**EROSION CONTROL NOTES:**

1. THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO CONTROL STORMWATER RUN-ON AND RUNOFF AND PROTECT ALL RUNOFF FROM POLLUTION WITH FUELS, OILS, BITUMENS, AND ANY HARMFUL MATERIALS AND SHALL CONDUCT AND SCHEDULE OPERATIONS SO AS TO AVOID OR MINIMIZE MUDDING OR SILTING OF SAID RUNOFF/RUN-ON. CARE SHALL BE EXERCISED TO PRESERVE ADJACENT VEGETATION AND LANDSCAPING BEYOND THE LIMITS OF CONSTRUCTION. AT A MINIMUM THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER POLLUTION CONTROL MEASURES SHOWN ON THIS PLAN, HOWEVER ADDITIONAL MEASURES MAY BE NEEDED AS A RESULT OF THE CONTRACTOR'S OPERATIONS. BEFORE STARTING ANY WORK ON THE PROJECT, THE CONTRACTOR SHALL SUBMIT, FOR ACCEPTANCE BY THE ENGINEER, A PROGRAM TO CONTROL WATER POLLUTION EFFECTIVELY DURING THE CONSTRUCTION OF THE PROJECT. SUCH A PLAN SHALL SHOW THE SCHEDULE FOR EROSION CONTROL WORK INCLUDED IN THE CONTRACT AND FOR ALL WATER POLLUTION CONTROL MEASURES THAT THE CONTRACTOR PROPOSES TO TAKE IN CONNECTION WITH CONSTRUCTION OF THE PROJECT TO MINIMIZE THE EFFECTS OF HIS OPERATIONS UPON STORMWATER RUNOFF/RUN-ON. THE ENGINEER WILL NOTIFY THE CONTRACTOR OF THE ACCEPTANCE OR REJECTION OF ANY SUBMITTED OR REFUSED WATER POLLUTION CONTROL PLAN IN NO MORE THAN FIVE WORKING DAYS.
2. REFER TO PROJECT SWPPP FOR CURRENT EROSION CONTROL PLAN.
3. LINEAR SEDIMENT CONTROLS CAN BE STRAW, COMPOST, MANUFACTURED OR APPROVED EQUAL.



**Know what's below.  
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Underground Service Alert at  
811 two working days prior  
to excavation

**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

|          |  |
|----------|--|
| DATE     |  |
| REVISION |  |
| NO.      |  |

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2001 W. 10TH AVENUE, SUITE 100  
SACRAMENTO, CA 95811  
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SW LUST DESIGN & MAPS

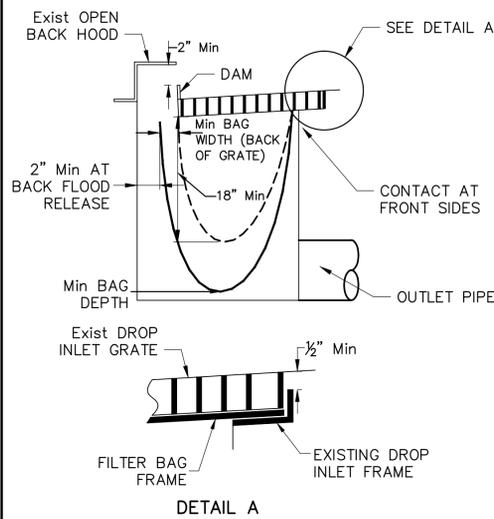
**EROSION CONTROL PLAN**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of  
**Rocklin**  
4081 AVE Court  
Rocklin, CA 95667  
(916) 625-5500

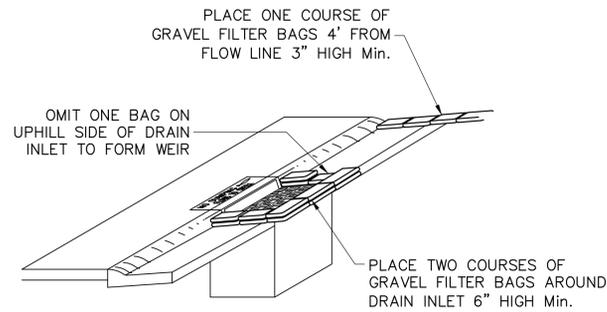


REGISTERED PROFESSIONAL ENGINEER  
MARRY MICHAEL W. WILSON  
No. 229836  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

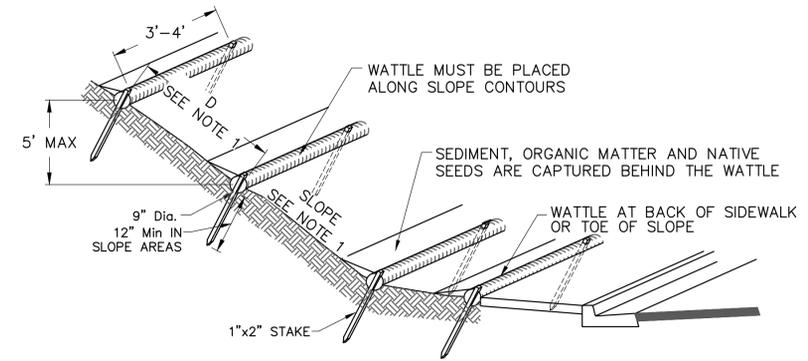
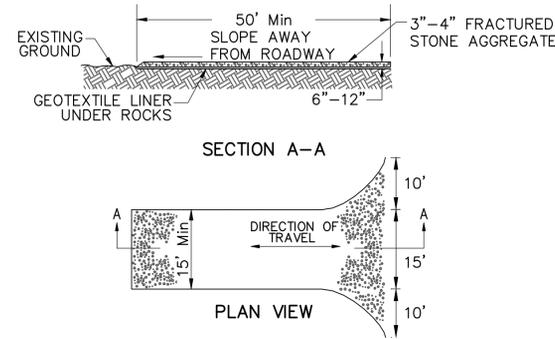
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| SCALE    | 1" = 30'      |
| JOB NO.  | 25-6000-49    |
| DESIGNED | HD            |
| DRAWN    | EM            |
| FILE     | 2227EC001.DWG |
| CHECKED  | LW            |
| DATE     | MAY 11, 2017  |



1 INLET FILTER BAG DETAIL  
NO SCALE



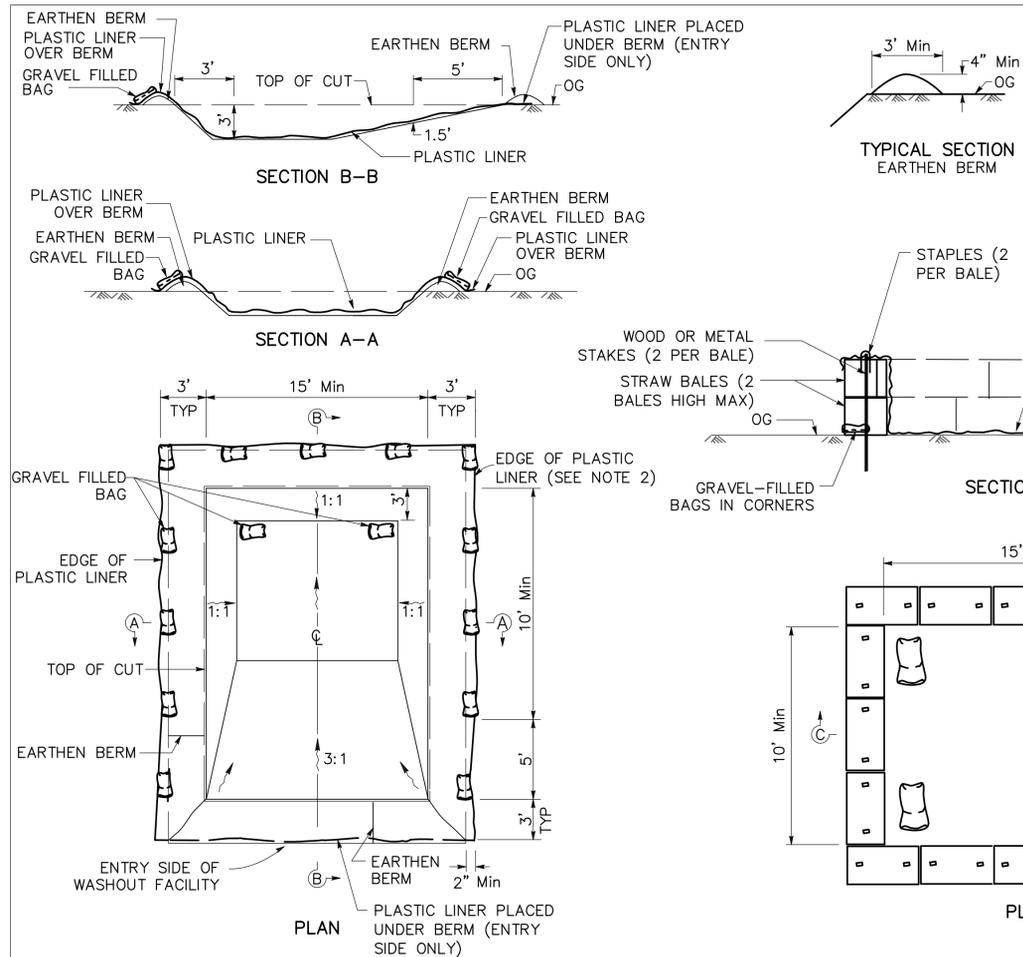
2 STABILIZED CONSTRUCTION ENTRANCE  
NO SCALE



SLOPE PROTECTION NOTES:

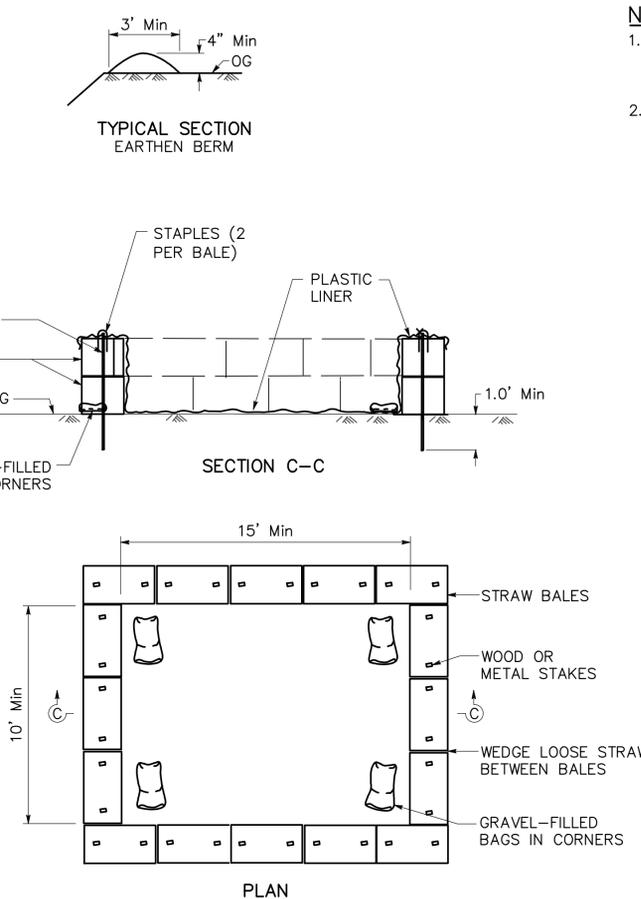
- FOR SLOPES 1:4 OR FLATTER, D=20'.  
FOR SLOPES BETWEEN 1:4 AND 1:2, D=15'.  
FOR SLOPES 1:2 OR GREATER, D=10'.
- INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH 3" MIN DEEP IN FLAT AREA AND 4" MIN IN SLOPE AREA DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND WATTLE.

3 SLOPE PROTECTION DETAIL  
NO SCALE



TEMPORARY CONCRETE WASHOUT FACILITY  
(Below Grade)

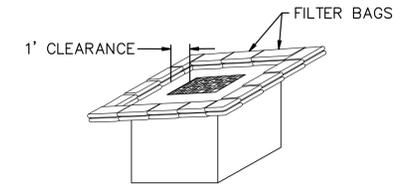
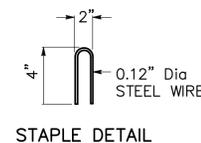
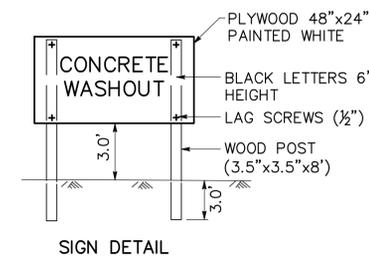
5 TEMPORARY CONCRETE WASHOUT FACILITY  
NO SCALE



TEMPORARY CONCRETE WASHOUT FACILITY  
(On Grade)

NOTES:

- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 3' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- PLASTIC LINER SHALL BE ANCHORED WITH GRAVEL-FILLED BAGS FOR BELOW GRADE CONCRETE WASHOUT FACILITY.



4 AREA DRAIN PROTECTION DETAIL  
NO SCALE



Know what's below.  
Call before you dig.  
Contractor shall call Underground Service Alert at 811 two working days prior to excavation

RECORD DRAWING

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

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916.222.7222  
MAY 11, 2017 10:20 AM

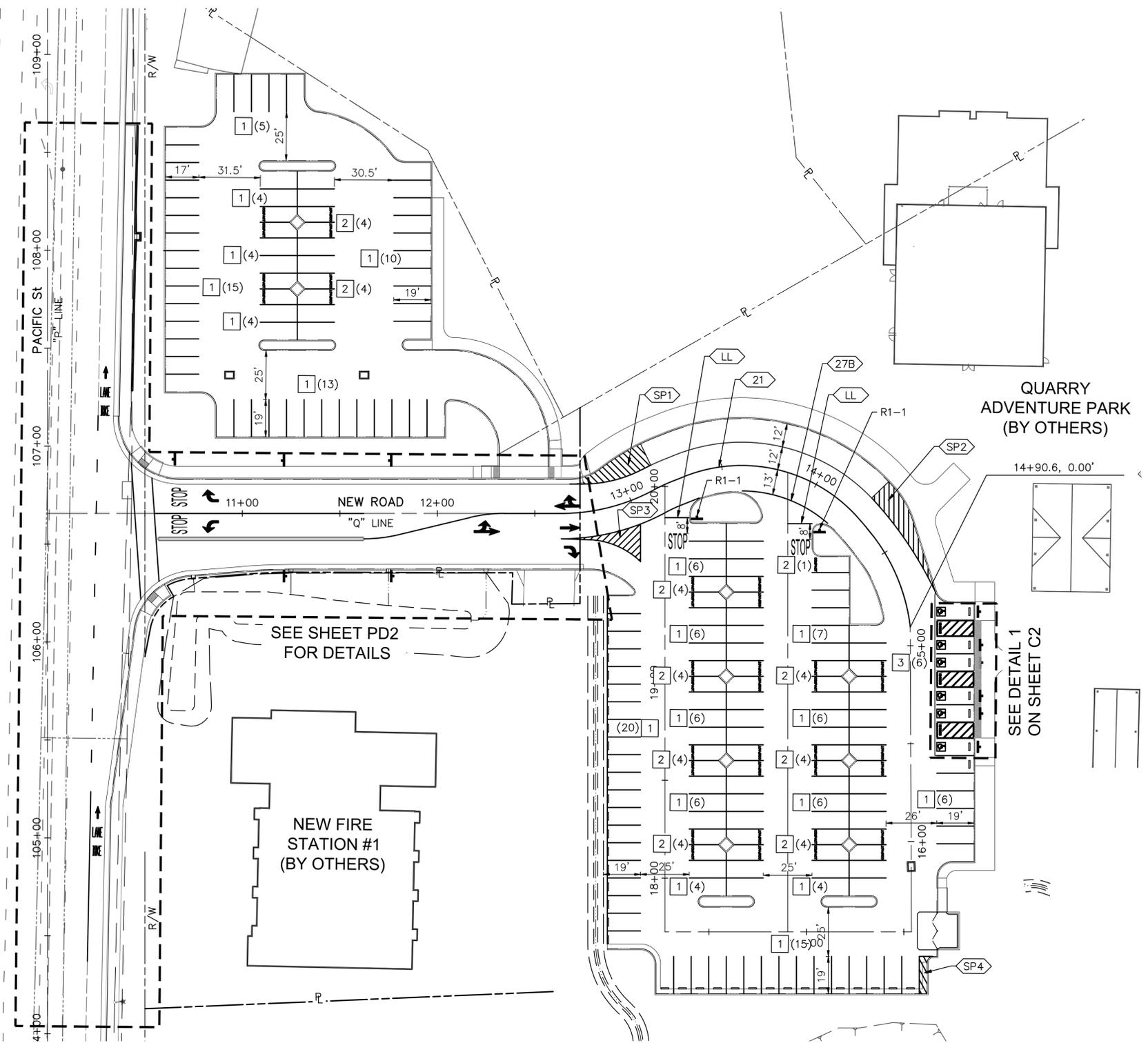
**EROSION CONTROL DETAILS**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

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**Rocklin**  
4081 Ave Court  
Rocklin, CA 95667  
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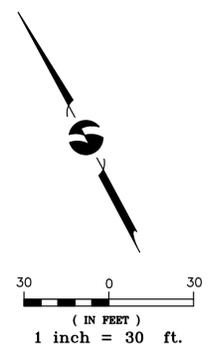
REGISTERED PROFESSIONAL ENGINEER  
MARRY MICHAEL W. WILSON  
No. 429836  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

|          |               |
|----------|---------------|
| SCALE    | NO SCALE      |
| JOB NO.  | 25-6000-49    |
| DESIGNED | HD            |
| DRAWN    | EM            |
| FILE     | 2227EC001.DWG |
| CHECKED  | LW            |
| DATE     | MAY 11, 2017  |



**LEGEND:**

- ◄ LIMIT OF STRIPING PATTERN
- TANGENT POINT/BC OR EC
- △ ANGLE POINT
- STOP "STOP" THERMOPLASTIC PAVEMENT MARKING
- "BIKE LANE" ARROW THERMOPLASTIC PAVEMENT MARKING
- TYPE I (10') THERMOPLASTIC PAVEMENT MARKING
- TYPE IV (R&L) THERMOPLASTIC PAVEMENT MARKING
- TYPE VII (R&L) THERMOPLASTIC PAVEMENT MARKING
- EXISTING SIGN
- SIGN (ONE POST)
- ⊗ EXISTING TRAFFIC STRIPE
- ⊗ THERMOPLASTIC TRAFFIC STRIPE
- ⊗ LL 13 LF 12" WHITE THERMOPLASTIC PAVEMENT MARKING
- ⊗ CW 12" WHITE THERMOPLASTIC PAVEMENT MARKING
- ⊗ SP1 4" WHITE THERMOPLASTIC PER DETAIL ON THIS SHEET
- ⊗ SP2 4" WHITE THERMOPLASTIC PER DETAIL ON THIS SHEET
- ⊗ SP3 4" WHITE THERMOPLASTIC PER DETAIL ON THIS SHEET
- ⊗ SP4 4" WHITE THERMOPLASTIC PER DETAIL ON THIS SHEET

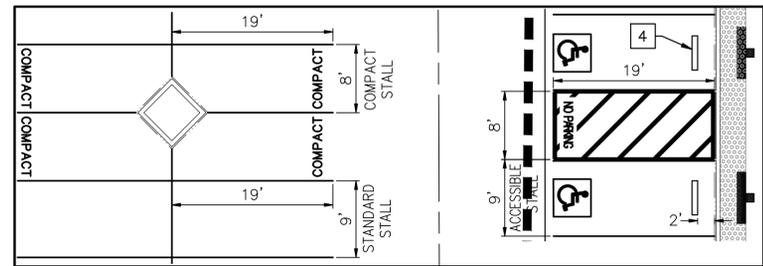


**KEY NOTES: (THIS SHEET ONLY)**

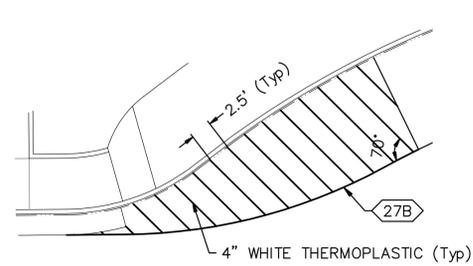
- 1 STANDARD STALL (147).
- 2 COMPACT STALL (37).
- 3 ACCESSIBLE STALL (6).
- 4 WHEEL STOP. SEE DETAIL 2 ON SHEET C1.

**NOTES:**

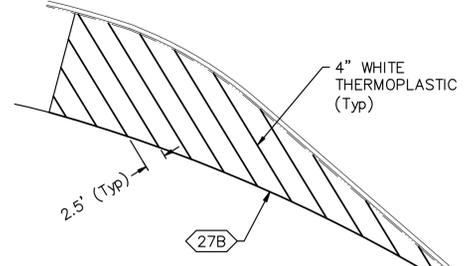
- 1. STALL COUNT TOTAL:  
PROVIDED: 190 STALLS (37 COMPACT) AND 6 ACESIBLE STALLS



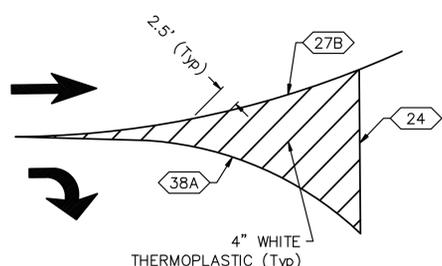
**TYPICAL STALL DIMENSIONS**  
SCALE: 1"=10'



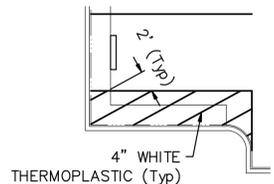
**DETAIL SP1**  
NO SCALE



**DETAIL SP2**  
NO SCALE



**DETAIL SP3**  
NO SCALE



**DETAIL SP4**  
NO SCALE

**RECORD DRAWING**

ALL INFORMATION SHOWN ON THESE PLANS HAVE BEEN PREPARED BY, OR UNDER THE DIRECTION OF, THE UNDERSIGNED ENGINEER. ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION ARE INCLUDED HEREIN WHEN THE PROJECT ENGINEER IS ADVISED IN WRITING OF SUCH CHANGE BY THE OWNER, DEVELOPER, CONTRACTOR OR THE CITY OF ROCKLIN.

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_



Contractor shall call Underground Service Alert at 811 two working days prior to excavation

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www.omnimeans.com  
DM LUTZ DESIGN & MAPS

**PAVEMENT DELINEATION  
PARKING LOT**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

**City of Rocklin**  
4081 Ave Court  
Rocklin, CA 95667  
(916) 625-5500

REGISTERED PROFESSIONAL ENGINEER  
LARRY MICHAEL WILSON  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

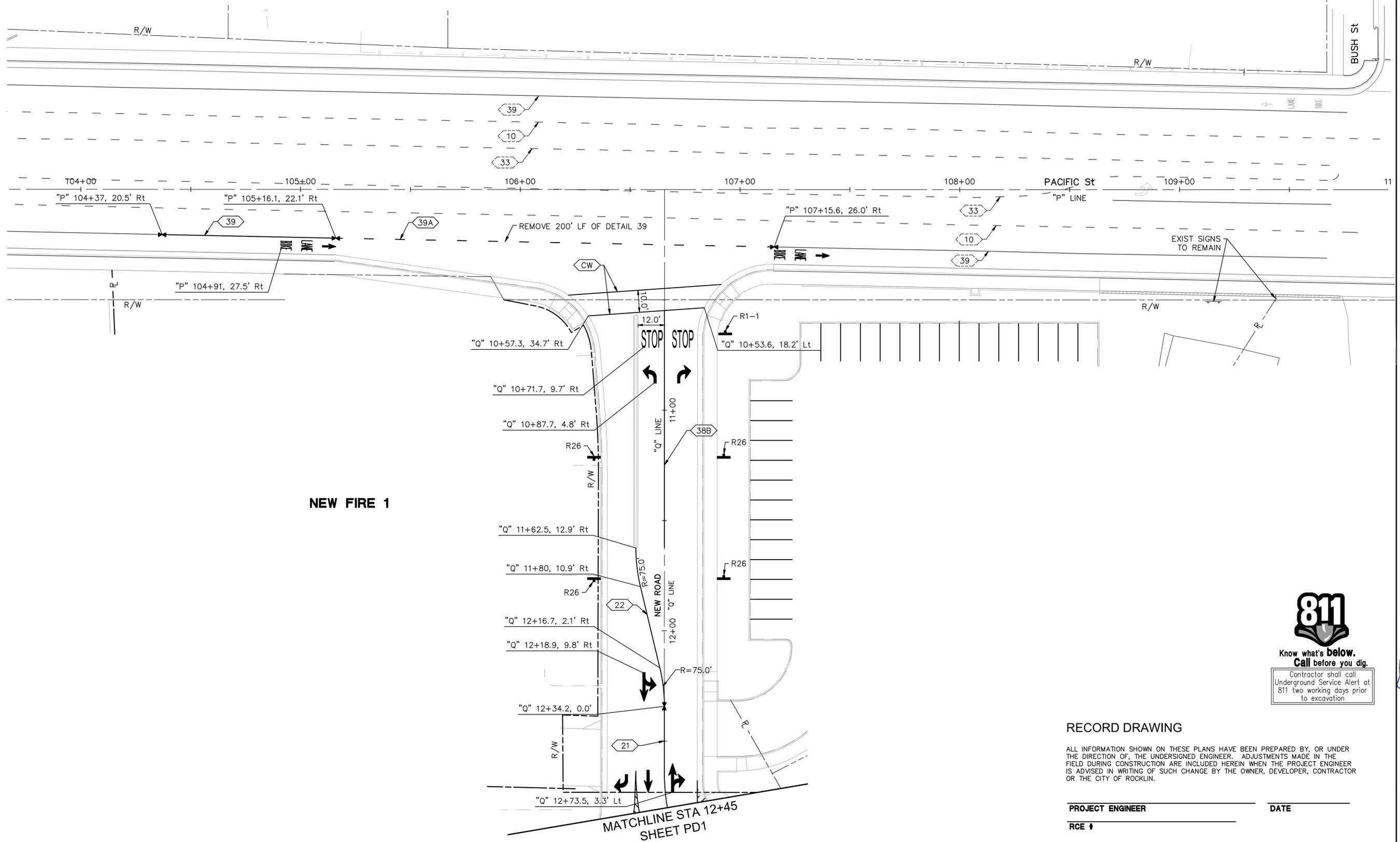
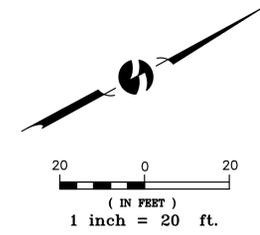
|          |               |
|----------|---------------|
| SCALE    | 1" = 30'      |
| JOB NO.  | 25-6000-49    |
| DESIGNED | HD            |
| DRAWN    | EM            |
| FILE     | 2227PD002.DWG |
| CHECKED  | LW            |
| DATE     | MAY 11, 2017  |

**NOTES:**

1. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND SHALL CONFORM TO CALTRANS STANDARDS.
2. ALL SIGNAGE SHALL CONFORM TO THE LATEST EDITION OF CA MUTCD (2016).

**LEGEND:**

- ▶ LIMIT OF STRIPING PATTERN
- TANGENT POINT/BC OR EC
- △ ANGLE POINT
- STOP "STOP" THERMOPLASTIC PAVEMENT MARKING
- ↔ "BIKE LANE" ARROW THERMOPLASTIC PAVEMENT MARKING
- TYPE I (10') THERMOPLASTIC PAVEMENT MARKING
- ↪ TYPE IV (R&L) THERMOPLASTIC PAVEMENT MARKING
- ↪ TYPE VII (R&L) THERMOPLASTIC PAVEMENT MARKING
- EXISTING SIGN
- SIGN (ONE POST)
- ⊗ EXISTING TRAFFIC STRIPE
- ⊗ THERMOPLASTIC TRAFFIC STRIPE
- ⊗ CW 12" WHITE THERMOPLASTIC PAVEMENT MARKING



| NO. | REVISION | DATE |
|-----|----------|------|
|     |          |      |
|     |          |      |
|     |          |      |
|     |          |      |

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**PAVEMENT DELINEATION AND SIGNING PLAN**  
NEW FIRE STATION ACCESS ROAD AND PARKING LOTS FOR QUARRY ADVENTURE PARK

**City of Rocklin**  
4081 AVIS COURT  
ROCKLIN, CA 95667  
(916) 625-5500

**811**  
Know what's below.  
Call before you dig.  
Contractor shall call Underground Service Alert at 811 two working days prior to excavation

**RECORD DRAWING**

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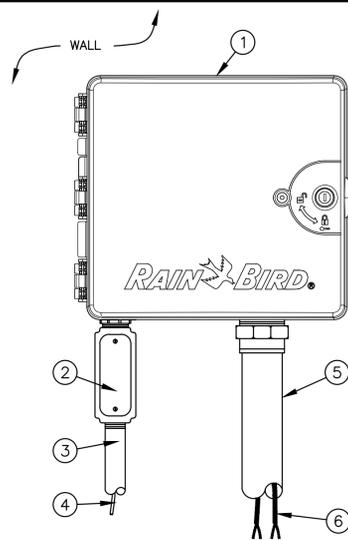
PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
RCE # \_\_\_\_\_

REGISTERED PROFESSIONAL ENGINEER  
MARTY MICHAEL  
No. 229836  
Exp. 03-31-19  
CIVIL  
STATE OF CALIFORNIA

|          |               |
|----------|---------------|
| SCALE    | 1" = 20'      |
| JOB NO.  | 25-6000-49    |
| DESIGNED | HD            |
| DRAWN    | EM            |
| FILE     | 2227PD001.DWG |
| CHECKED  | LW            |
| DATE     | MAY 11, 2017  |







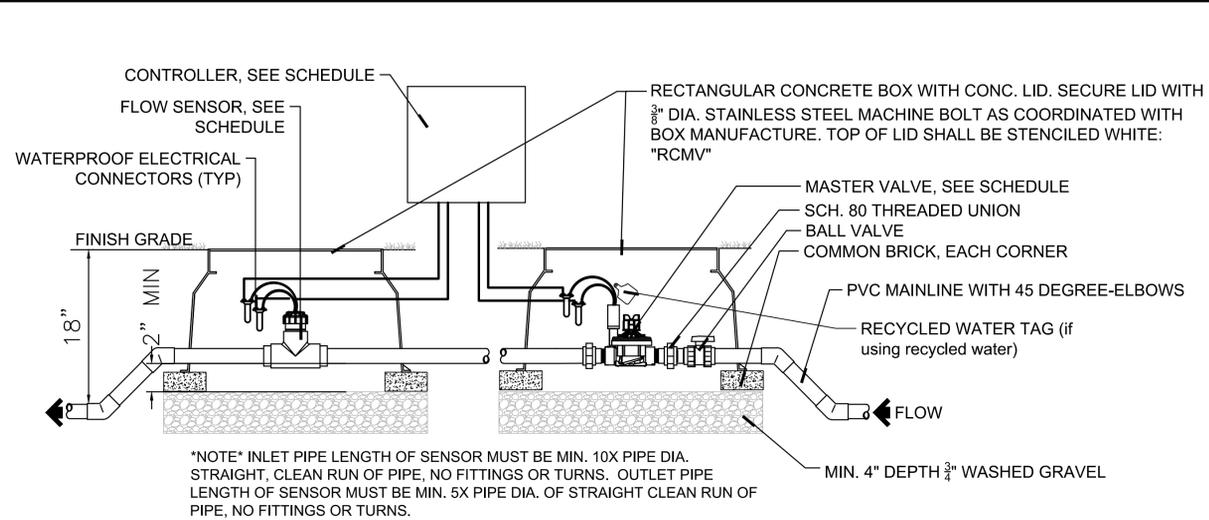
- ① TWO-WIRE DECODER CONTROLLER PER IRRIGATION SCHEDULE: TWO-WIRE DECODER CONTROLLER IN LOCKABLE CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- ② JUNCTION BOX
- ③ 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
- ④ POWER SUPPLY WIRE
- ⑤ 2-INCH CONDUIT AND FITTINGS FOR TWO-WIRE CABLE
- ⑥ MAXICABLE TWO-WIRE PATH TO DECODERS  
USE A DIFFERENT CABLE JACKET COLOR FOR EACH PATH.

NOTES:  
1. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.  
2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

**1 TWO WIRE DECODER WALL MOUNT CONTROLLER CABINET**

NTS

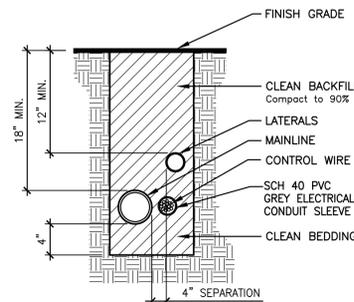
328409.13-11



**2 MASTER VALVE AND FLOW SENSOR ASSEMBLY**

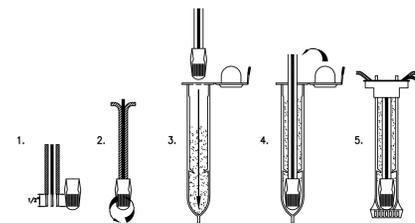
1 1/2" = 1'-0"

TWO WIRE SYSTEMS - INSTALL PER MANUFACTURER'S SPECIFICATIONS AND DETAILS.



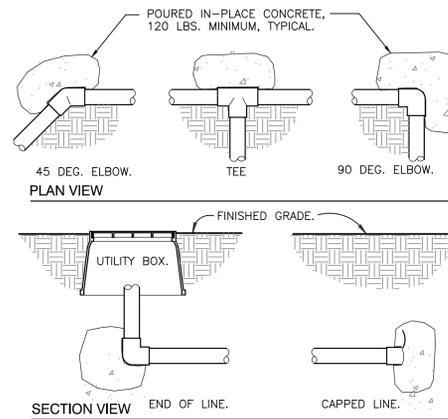
**SECTION: PLANTING AREAS**

1. ALL PIPE, WIRE, &/OR SLEEVES TO GO UNDER SIDEWALK PAVEMENT TO BE INSTALLED PRIOR TO PAVING BEING INSTALLED.
2. BUNDLE AND TAPE ALL CONTROL WIRE AT 10' INTERVALS; TAPE TO MAINLINE AT 20' INTERVALS.
3. TIE A LOOSE 2' LOOP IN WIRE AT CHANGES IN DIRECTION OF 30 DEG. OR GREATER. UNTIE AFTER CONNECTIONS HAVE BEEN MADE.
4. INSTALL LOCATOR WIRE ALONGSIDE MAINLINE WHERE THERE IS NO CONTROL WIRE.
5. SEE CALTRANS STANDARD PLANS FOR IRRIGATION CROSSOVERS AND CONDUIT DETAILS BELOW STREET PAVING.



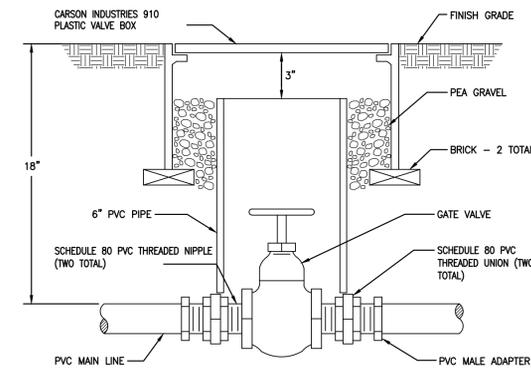
**4 WIRE SPLICING**

NOT TO SCALE



**5 THRUST BLOCKING**

NOT TO SCALE

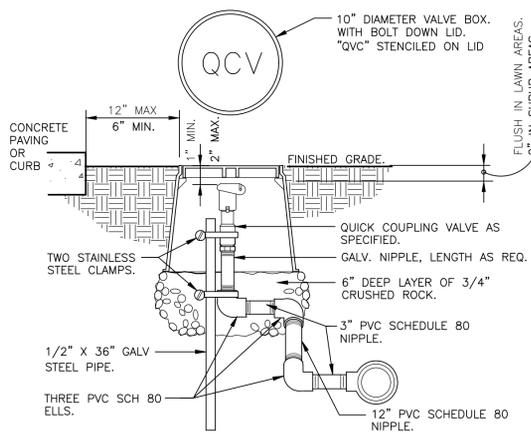


**6 IRRIGATION GATE VALVE**

NOT TO SCALE

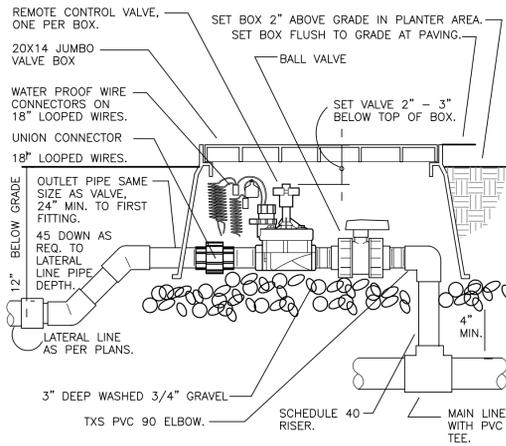
**3 IRRIGATION PIPE AND CONTROL WIRE TRENCHING**

NOT TO SCALE



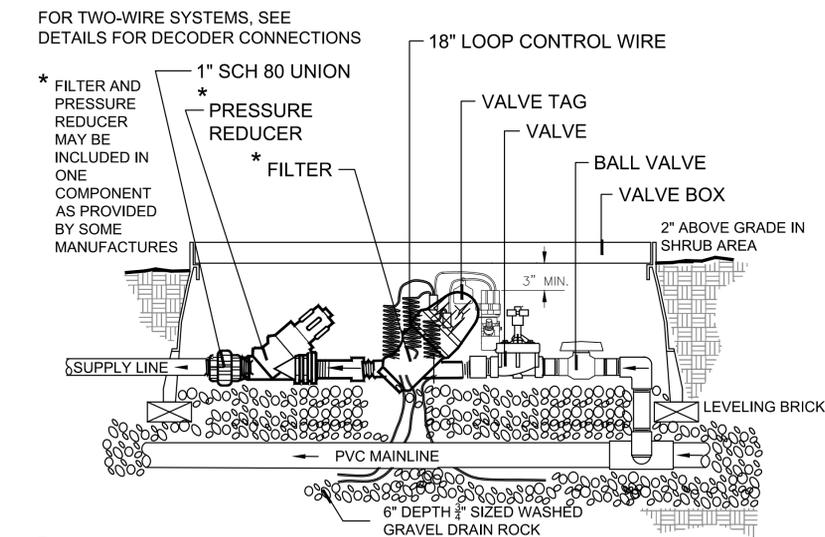
**7 QUICK COUPLING VALVE**

1 1/2" = 1'-0"



**8 REMOTE CONTROL VALVE WITH A UNION**

NOT TO SCALE



**9 DRIP VALVE ASSEMBLY WITH UNION**

1" = 1"

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2000 Northgate Blvd., Suite 100  
Rocklin, CA 95677  
www.omni-means.com (916) 988-8888  
SWM L105 08/09 01/10/10

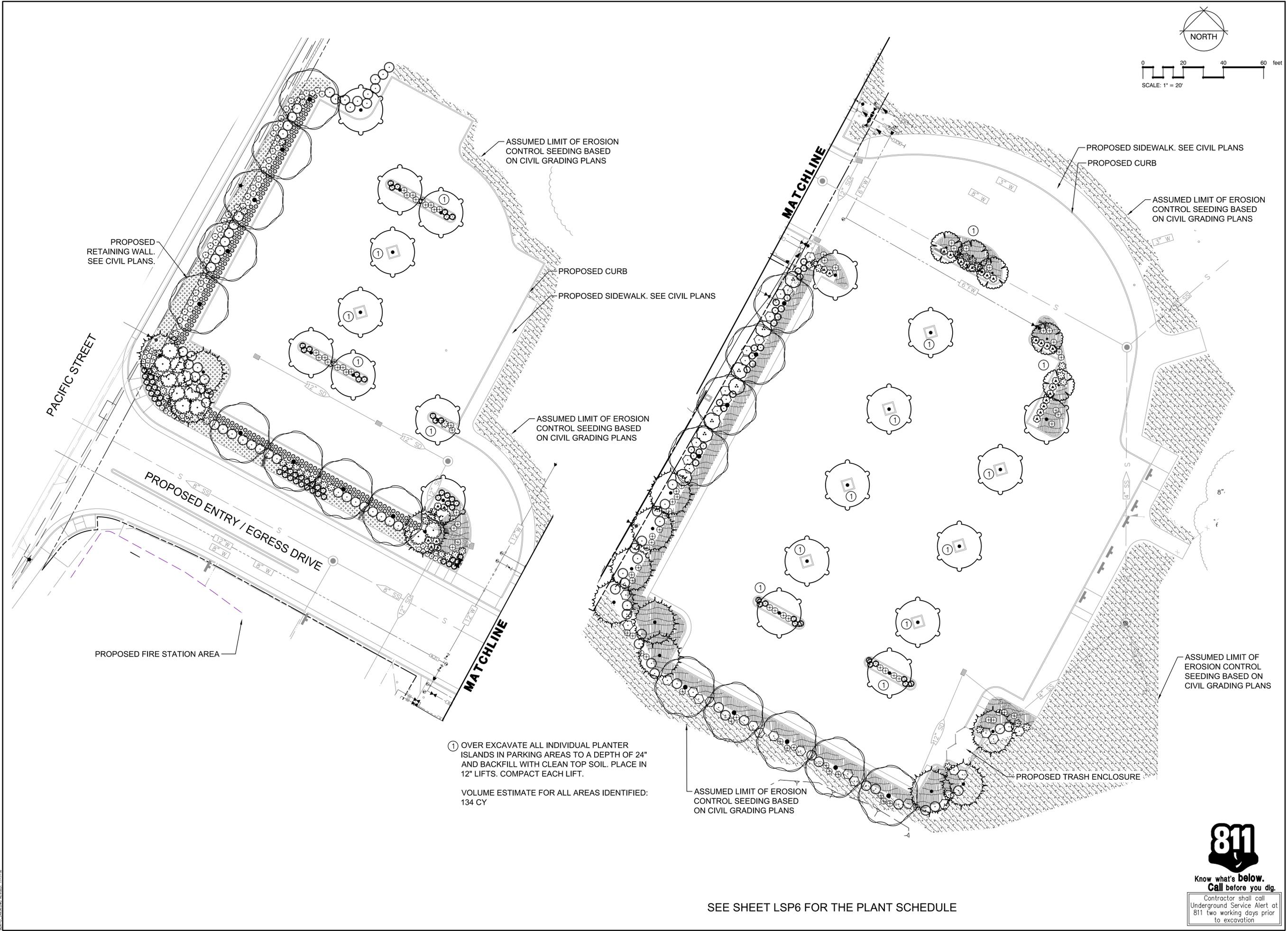
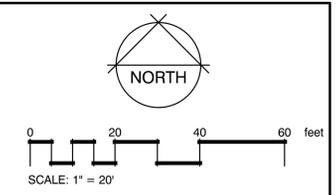
**IRRIGATION DETAILS**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

**City of Rocklin**  
4081 Avila Court  
Rocklin, CA 95667  
(916) 625-5500

LICENSED LANDSCAPE ARCHITECT  
**Robertson**  
Signature  
10/21/08  
Renewed State  
May 11, 2017  
12/21  
STATE OF CALIFORNIA

|          |                |
|----------|----------------|
| SCALE    | as noted       |
| JOB NO.  | 25-6000-49     |
| DESIGNED | SAR            |
| DRAWN    | SAR            |
| FILE     | 2227LSP001.DWG |
| CHECKED  | SAR            |
| DATE     | MAY 11, 2017   |





① OVER EXCAVATE ALL INDIVIDUAL PLANTER ISLANDS IN PARKING AREAS TO A DEPTH OF 24" AND BACKFILL WITH CLEAN TOP SOIL. PLACE IN 12" LIFTS. COMPACT EACH LIFT.

VOLUME ESTIMATE FOR ALL AREAS IDENTIFIED:  
134 CY

SEE SHEET LSP6 FOR THE PLANT SCHEDULE

**811**  
Know what's below.  
Call before you dig.  
Contractor shall call Underground Service Alert at 811 two working days prior to excavation

|     |      |          |
|-----|------|----------|
| NO. | DATE | REVISION |
|     |      |          |
|     |      |          |
|     |      |          |
|     |      |          |

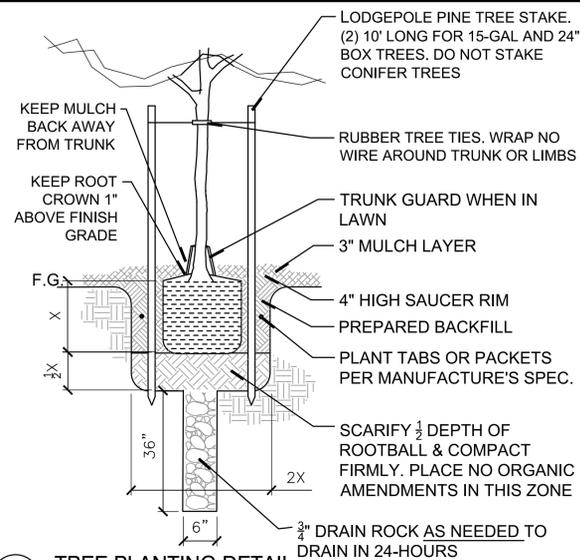
**omni means**  
ENGINEERING SOLUTIONS  
a GHD Company  
SACRAMENTO REGION  
2000 N. WASHINGTON ST., SUITE 200  
SACRAMENTO, CA 95833  
TEL: 916.486.8888  
WWW.OMNIMEANS.COM

**PLANTING PLAN**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

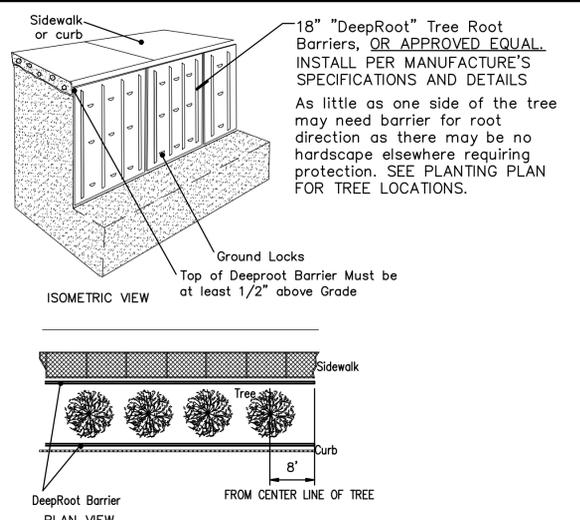
**City of Rocklin**  
4087 Alys Court  
Rocklin, CA 95687  
(916) 625-5500

LICENSED LANDSCAPE ARCHITECT  
**Robertson**  
Signature: *Robertson*  
10/21/16  
Renewed Date: May 11, 2017  
STATE OF CALIFORNIA

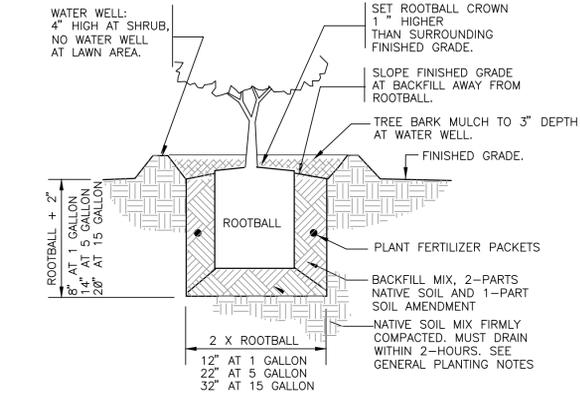
|          |                |
|----------|----------------|
| SCALE    | as noted       |
| JOB NO.  | 25-6000-49     |
| DESIGNED | SAR            |
| DRAWN    | SAR            |
| FILE     | 2227LSP001.DWG |
| CHECKED  | SAR            |
| DATE     | MAY 11, 2017   |



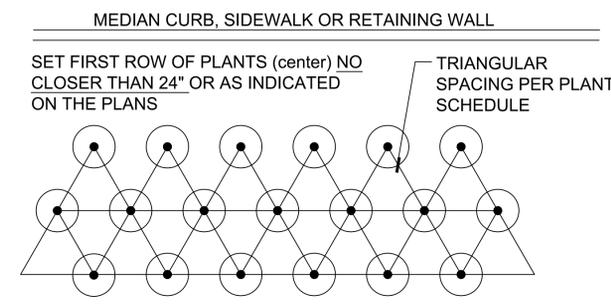
1 TREE PLANTING DETAIL  
NOT TO SCALE



2 LINEAR PANEL ROOT BARRIER  
NOT TO SCALE



3 SHRUB PLANTING  
1\"/>



4 TYPICAL PLANTING LAYOUT IN MEDIANS  
1/2\"/>

GENERAL PLANTING NOTES

- PLANT MATERIAL: The plant quantities are provided for the convenience of the owner. The contractor shall verify all plant counts between the plant list and the plans. If a discrepancy exists, the plans shall govern. Notify Landscape Architect immediately if materials are not available as specified. All substitutions are subject to the written approval of the record Landscape Architect. The Contractor is required to submit plant quantities and unit prices for all plant materials as a part of the bid.
- SOILS TEST: Contractor shall obtain an agricultural soils test (Soil Management Report) from at least four different planter area locations within the project area after site development grading is complete. Soil test results shall be provided to the Landscape Architect and Owner for their records. Soil amendments / planter backfill shall be as recommended by the soils report to correct soil deficiencies. Recommendations for amendments contained in this analysis are to be carried out before planting occurs. Such changes are to be accompanied by equitable adjustments in the contract price if/when necessary. Regardless of the report results, at minimum, in areas receiving ground cover plant materials or sod grass, an application of nitrified or composted fir or redwood forest mulch at a minimum of 3-yards per 1,000 sf shall be roto-tilled into the soil to a depth of 8-inches.
- COMPACTED SOIL: Prior to planting, the planting areas shall be ripped to a depth of 8" to reduce compaction. This task is subject to the final recommendations of the soils test and review by the Landscape Architect or Owner's representative. All planters in areas which have been compacted, such as in parking lots, shall be de-compacted to the following depths: planters less than three feet wide shall have compaction relieved to a minimum depth of 24-inches below subgrade; planters three to ten feet wide shall have compaction relieved to a minimum depth of 18-inches below subgrade; planters more than ten feet wide shall have compaction relieved to a minimum depth of 12-inches below subgrade.
- FINISH GRADE: The finished grade of planter islands (IE in parking lots) shall have a crown with a two percent slope down to surrounding grade or top of curb, and a one-foot lip. Finish grade all planter areas to establish a smooth, even finish. Remove all rocks or debris larger than 1-inch in diameter.
- PRE-EMERGENT: A pre-emergent herbicide (Ronstar-g, Surflan, or equal) shall be applied to all non-turf landscaped areas before applying surface mulch.
- ROOT BARRIERS: Root barriers shall be provided for all trees that are within eight feet of paving, and 5' of water meters / joint trench. See root barrier detail.
- PARKING AREA PLANTERS: Maintain a minimum 24" clearance between curb and shrub / tree plants where parking stalls about planters.
- MULCH: All planting areas, including pots, but not lawn areas, shall be top-dressed with a 3" layer of Decorative Walk-on Wood Mulch. Submit sample to Owner for review / approval prior to ordering. Hold all mulch six (6) inches away from tree trunks where mulch is applied over the root-ball of tree.
- DRAIN INLET FILTER ROCK: Place 2"- 4" size cobble rock mulch (with filter cloth) around all drain inlets (1-ft. around) in planter areas (not containing turf) to mitigate clogging from bark mulch. See Civil plans for area drainage inlets.

| Botanical Name (Common Name)              | Seed Percent Germination (Minimum) | Pounds Pure Live Seed Per Acre (Slope Measurement) |
|---|------------------------------------|--|
| Lupinus nanus (Sky Lupine)                | 45                                 | 1.81   |
| Lotus purshianus (Spanish Clover)         | 45                                 | 1.81   |
| Bromus carinatus Native California Brome  | 45                                 | 3.4  |
| Elymus glaucus Blue Wildrye               | 45                                 | 2.72   |
| Hordeum californicum California Barley    | 45                                 | 2.72   |
| Festuca idahoensis Idaho Fescue           | 40                                 | 2.26   |
| Nassella pulchra Purple Needlegrass       | 40                                 | 2.26   |
| Poa secunda Native Pine Bluegrass         | 40                                 | 1.81   |
| Eschscholzia californica California Poppy | 45                                 | 0.54   |
| Lasthenia glabrata Goldfields             | 40                                 | 0.54   |
| Lupinus nanus Sky Lupine                  | 40                                 | 1.36   |
| Clarkia boltonii, Showy Clarkia           | 40                                 | 0.57   |
| Castilleja exerta Purple Owls Clover      | 20                                 | 0.11   |
| Sisyrinchium bellum Blue-eyed grass       | 45                                 | 0.15   |

\*Seed produced in California only.

PLANT SCHEDULE

| TREES                 | QTY              | BOTANICAL NAME  | COMMON NAME                  | CONT    |          |
|-----------------------|------------------|---|------------------------------|---------|----------|
|                       | 20               | Acer rubrum 'Autumn Blaze'                                | Autumn Blaze Red Maple       | 15 gal  |          |
|                       | 5                | Arbutus x 'Marina'  | Arbutus Standard             | 24" Box |          |
|                       | 13               | Cedrus deodara  | Deodar Cedar                 | 15 gal  |          |
|                       | 7                | Cercis occidentalis                                       | Western Redbud Multi-trunk   | 15 gal  |          |
|                       | 18               | Quercus wislizenii  | Interior Live Oak            | 15 gal  |          |
| SHRUBS                | QTY              | BOTANICAL NAME  | COMMON NAME                  | CONT    |          |
|                       | 27               | Callistemon viminalis 'Little John'                       | Dwarf Bottlebrush            | 5 gal   |          |
|                       | 12               | Ceanothus x 'Joyce Coulter'                               | Ceanothus Joyce Coulter      | 5 gal   |          |
|                       | 85               | Diets bicolor   | Fortnight Lily               | 1 gal   |          |
|                       | 203              | Festuca mairei  | Atlas Fescue                 | 1 gal   |          |
|                       | 33               | Heteromeles arbutifolia                                   | Toyon                        | 5 gal   |          |
|                       | 58               | Lavandula stoechas  | Spanish Lavender             | 1 gal   |          |
|                       | 23               | Muhlenbergia rigens                                       | Deer Grass                   | 5 gal   |          |
|                       | 49               | Phormium tenax 'Pink Stripe'                              | New Zealand Flax Pink Stripe | 5 gal   |          |
|                       | 77               | Rhamnus californica 'Eve Case'                            | California Coffeeberry       | 5 gal   |          |
|                       | 70               | Rosa x 'Flower Carpet Coral'                              | Flower Carpet Coral Rose     | 2 gal   |          |
|                       | 36               | Tulbaghia violacea 'Silver Lace'                          | Silver Lace Society Garlic   | 1 gal   |          |
| GROUND COVERS         | QTY              | BOTANICAL NAME  | COMMON NAME                  | CONT    | SPACING  |
|                       | 384              | Hypericum calycinum                                       | Creeping St. John's Wort     | 1 gal   | 24" o.c. |
|                       | 3,893 sf         | Sod x 'Mow Free Native'                                   | Mow Free Native Mix          | Sod     |          |
| EROSION CONTROL AREAS | QTY              | BOTANICAL NAME  | COMMON NAME                  | CONT    | SPACING  |
|                       | 15,761 sf        | Erosion Control Seed Mix Hydro Seed - See List This Sheet |                              | SF      |          |
| INERT MATERIALS       | QTY              | BOTANICAL NAME  | COMMON NAME                  | CONT    | SPACING  |
|                       | 9,370 sf (87 cy) | Wood Mulch Spread to a depth of 3"                        | Mulch                        | SF      |          |

| NO. | REVISION | DATE |
|-----|----------|------|
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|     |          |      |

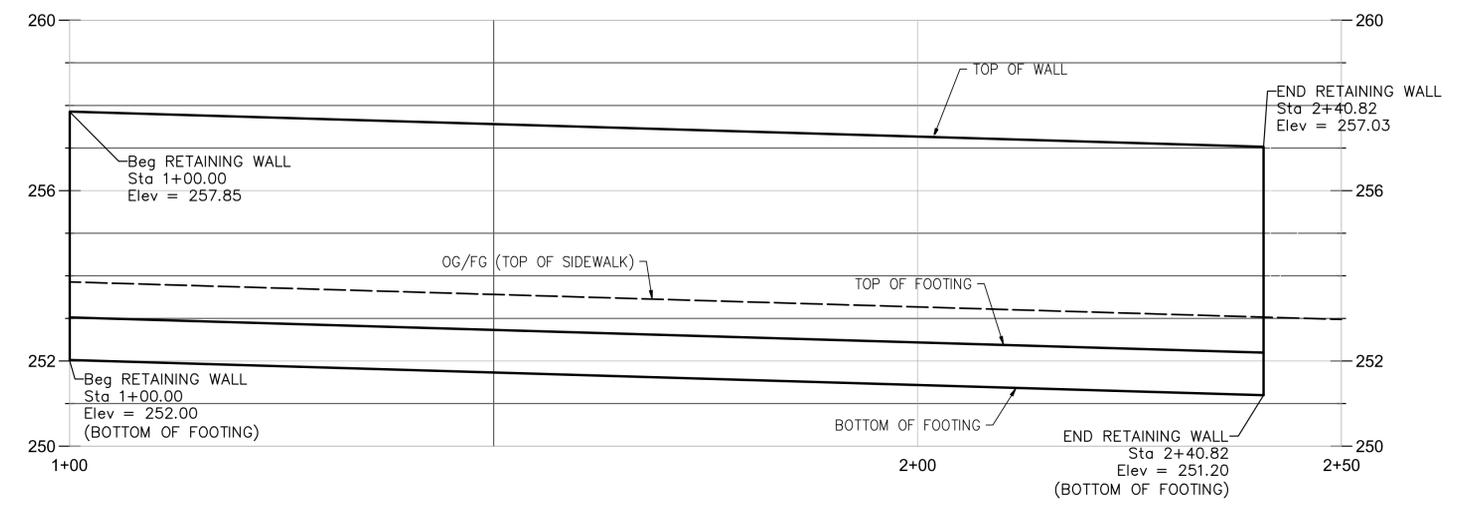
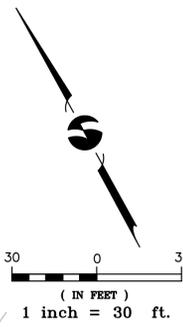
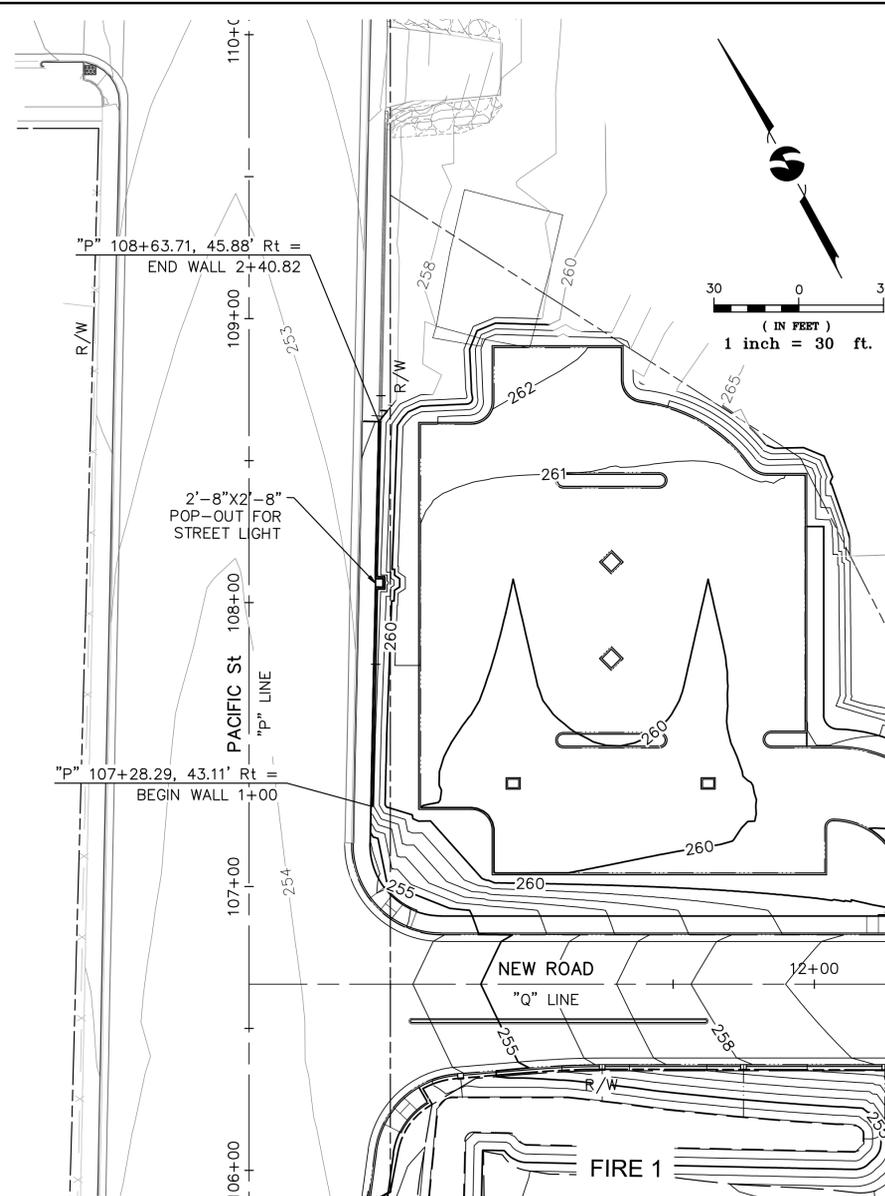
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ENGINEERING SOLUTIONS  
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SACRAMENTO REGION  
2400 Northgate Blvd, Suite 100  
Sacramento, CA 95833  
www.omnimeans.com 916.888.8888

**PLANT SCHEDULE**  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

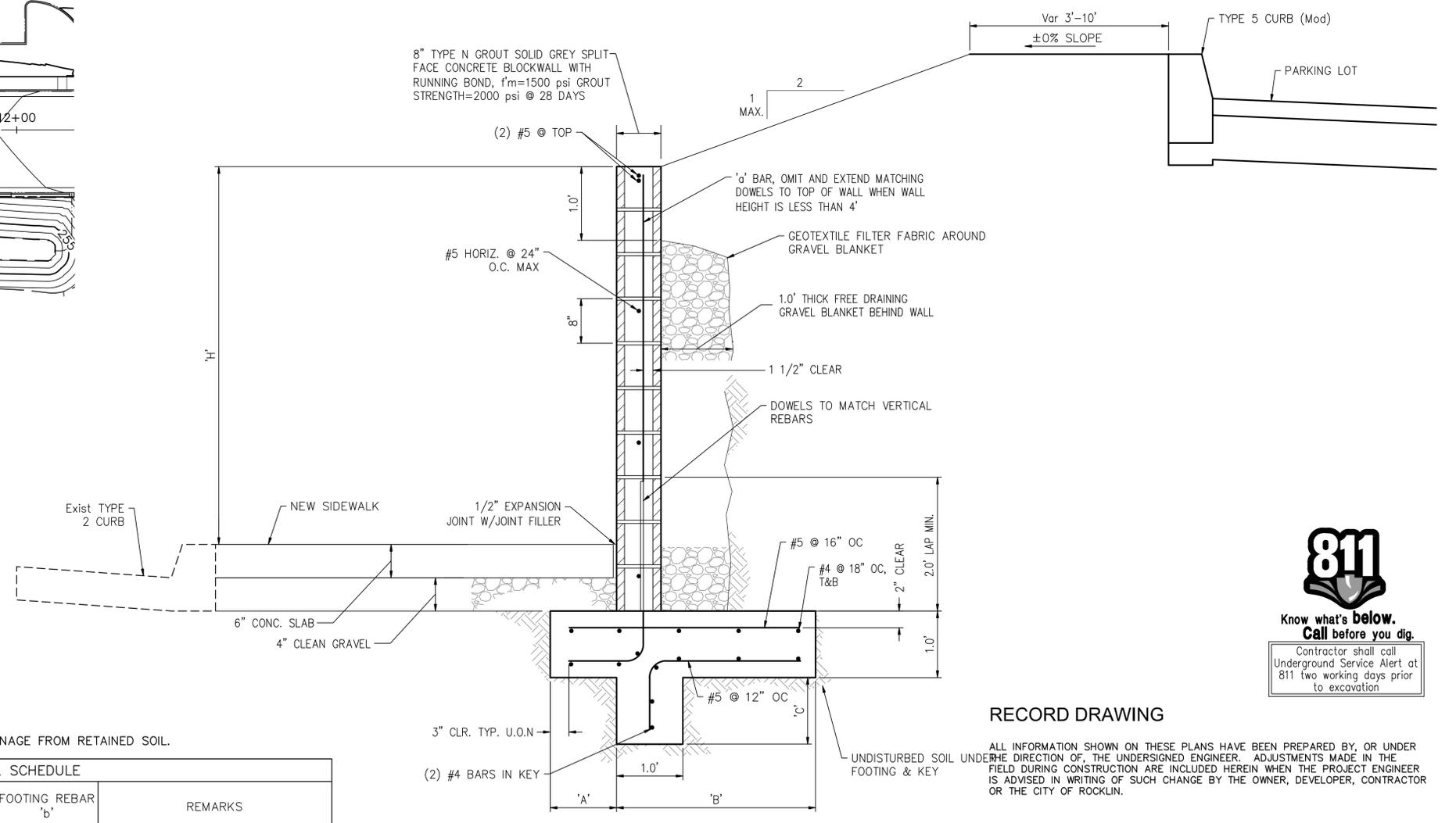
City of Rocklin  
4081 Aves Court  
Rocklin, CA 95667  
(916) 625-5500

SEAL OF THE STATE OF CALIFORNIA  
ROBERTSON ARCHITECT  
Signature  
10/21/18  
Renewed Seal  
May 11, 2017  
Date

|          |                |
|----------|----------------|
| SCALE    | as noted       |
| JOB NO.  | 25-6000-49     |
| DESIGNED | SAR            |
| DRAWN    | SAR            |
| FILE     | 2227LSP001.DWG |
| CHECKED  | SAR            |
| DATE     | MAY 11, 2017   |



**DEVELOPED ELEVATION**  
 Horiz: 1"=10'  
 Vert: 1"=2'



**NOTES:**

1. REINFORCEMENT: ASTM A615,  $f_y=60$  KSI.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
3. CONCRETE:  $f'_c=3000$  psi @ 28 DAYS.
4. OMIT HEAD JOINT MORTAR @ 4.0' O.C. FOR WATER DRAINAGE FROM RETAINED SOIL.

| RETAINING WALL SCHEDULE |               |                       |                       |               |                   |                                |
|-------------------------|---------------|-----------------------|-----------------------|---------------|-------------------|--------------------------------|
| WALL HEIGHT 'H'         | REBAR 'a'     | FOOTING DIMENSION 'A' | FOOTING DIMENSION 'B' | KEY DEPTH 'C' | FOOTING REBAR 'b' | REMARKS                        |
| 4'                      | #5 @ 16" O.C. | 1'-0"                 | 3'-0"                 | 12"           | #5 @ 16" O.C.     | NO SPECIAL INSPECTION REQUIRED |

**RETAINING WALL TYPICAL SECTION**  
 SCALE: NONE

**RECORD DRAWING**

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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 RCE # \_\_\_\_\_



Contractor shall call Underground Service Alert at 811 two working days prior to excavation

| NO. | REVISION | DATE | BY |
|-----|----------|------|----|
|     |          |      |    |

**omni means**  
 ENGINEERING SOLUTIONS  
 a GHD Company  
 SACRAMENTO REGION  
 2000 N. WILSON AVENUE  
 SUITE 100  
 SACRAMENTO, CA 95833  
 TEL: 916.486.8888  
 WWW.OMNIMEANS.COM

**RETAINING WALL PLAN**  
 NEW FIRE STATION ACCESS ROAD  
 AND PARKING LOTS FOR QUARRY  
 ADVENTURE PARK

**City of Rocklin**  
 4081 Aves Court  
 Rocklin, CA 95667  
 (916) 625-5500

REGISTERED PROFESSIONAL ENGINEER  
 MARY MICHAEL  
 No. 29836  
 Exp. 03-31-19  
 CIVIL  
 STATE OF CALIFORNIA

| SCALE    | AS NOTED     |
|----------|--------------|
| JOB NO.  | 25-6000-49   |
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| DRAWN    | HD           |
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| CHECKED  | LW           |
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| SHEET INDEX |  |
|-------------|--|
| SHEET       | DESCRIPTION                            |
| <b>E1.0</b> | SYMBOLS LIST, NOTES & SCHEDULES        |
| <b>E1.1</b> | TITLE 24 - OUTDOOR LIGHTING            |
| <b>E1.2</b> | TITLE 24 - OUTDOOR LIGHTING            |
| <b>E2.0</b> | SITE LIGHTING PLAN - ELECTRICAL        |
| <b>E2.1</b> | SITE LIGHTING PLAN - PHOTOMETRICS      |
| <b>E3.0</b> | ONE-LINE DIAGRAM, LOAD CALCS & DETAILS |

### GENERAL NOTES

THE CONTRACTOR SHALL VISIT JOB SITE AND VERIFY CONDITIONS BEFORE BIDDING.

THE ADJACENT BUSINESSES SHALL REMAIN IN OPERATION DURING ALL PHASES OF WORK. WHERE SYSTEM SHUTDOWNS AND POWER OUTAGES ARE UNAVOIDABLE, SUCH WORK SHALL BE SCHEDULED WITH THE CITY REPRESENTATIVE AND SHALL OCCUR AT SUCH TIMES AS TO CAUSE THE LEAST DISRUPTION OF NORMAL BUSINESS FUNCTIONS. INCLUDE ALL PREMIUM LABOR IN BID PROPOSAL TO COVER WORK REQUIRED TO BE PERFORMED BEFORE OR AFTER "NORMAL" WORKING HOURS.

ALL UNDERGROUND WIRING TO COMPLY WITH CEC 300.5.

UNLESS OTHERWISE INDICATED, ALL 20 AMP 120 VOLT BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS.

ALL EQUIPMENT INSTALLED OR CONNECTED BY THE CONTRACTOR SHALL BE LABELED OR CERTIFIED FOR ITS USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.

INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES (CEC, STATE, COUNTY, AND CITY).

ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER PROTECTED.

ALL POLE LIGHT FOUNDATIONS TO BE A MINIMUM 4' FROM UNDERGROUND UTILITIES.



| STANDARD ELECTRICAL SYMBOLS |   |
|-----------------------------|---|
| SYMBOL                      | DESCRIPTION   |
|                             | POLE MOUNTED LED PENDANT.   |
|                             | POLE MOUNTED LED PENDANT.   |
|                             | CONTROL AND/OR EQUIPMENT, N.I.E.S., INSTALL AND CONNECT AS REQUIRED.  |
|                             | JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED.   |
| MT                          | EMPTY CONDUIT WITH PULL-LINE.   |
| WP                          | WEATHERPROOF, DAMP OR WET LOCATION AS REQUIRED.   |
| 'G'                         | GREEN INSULATED GROUND WIRE, #12 AWG UNLESS NOTED.  |
| NL                          | NIGHT LIGHT.  |
| (E)                         | EXISTING.   |
| (N)                         | NEW.  |
| (R)                         | RELOCATE.   |
| (ER)                        | EXISTING RELOCATED IN LOCATION SHOWN.   |
|                             | NUMBERED NOTE.  |
| ---                         | RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.  |
| ---                         | EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.  |
|                             | ARROW AT END OF RACEWAY INDICATES HOME RUN TO RESPECTIVE PANELBOARD OR SWITCHBOARD.   |
|                             | BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT WITH 1 #12 AWG GROUND.   |
|                             | STRAIGHT CROSS-LINES IN BRANCH CIRCUIT RACEWAY INDICATE NUMBER OF #12 AWG WIRES IN A CIRCUIT. SHORT LINES INDICATE UNGROUNDED CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTORS. WIRES SHOWN ARE IN ADDITION TO 1 #12 AWG GROUNDING CONDUCTOR. |
|                             | FLUSH MOUNTED CONCRETE PULL BOX.  |
|                             | ISOLUX DIAGRAM ILLUSTRATING FOOTCANDLE AND LIGHTING DISTRIBUTION PATTERNS.  |

| LUMINAIRE SCHEDULE |                                  |                                 |      |      |     |       |       |                                |
|--------------------|----------------------------------|---------------------------------|------|------|-----|-------|-------|--------------------------------|
| TAG                | MANUFACTURER & CATALOG NUMBER    | DESCRIPTION                     | MTG. | LAMP |     | VOLTS | WATTS | REMARKS                        |
|                    |                                  |                                 |      | TYPE | No. |       |       |                                |
| <b>S1</b>          | HADCO<br>CXF5-64-G2-T-XX-3-N-A-5 | POLE MOUNTED SINGLE LED PENDANT | POLE | III  | 1   | 120   | 99    | CITY TO SPECIFY FIXTURE FINISH |
| <b>S2</b>          | HADCO<br>CXF5-64-G2-T-XX-4-N-A-5 | POLE MOUNTED SINGLE LED PENDANT | POLE | IV   | 1   | 120   | 99    | CITY TO SPECIFY FIXTURE FINISH |
| <b>S3</b>          | HADCO<br>CXF5-64-G2-T-XX-5-N-A-5 | POLE MOUNTED DUAL LED PENDANT   | POLE | V    | 2   | 120   | 198   | CITY TO SPECIFY FIXTURE FINISH |
| <b>S4</b>          | HADCO<br>CXF5-64-G2-T-XX-4-N-A-5 | POLE MOUNTED DUAL LED PENDANT   | POLE | IV   | 2   | 120   | 198   | CITY TO SPECIFY FIXTURE FINISH |

#### LUMINAIRE NOTES:

- MANUFACTURER AND DESCRIPTIONS NOTED ARE TO ESTABLISH MINIMUM STANDARDS. PRODUCTS WILL BE REVIEWED BASED ON PHOTOMETRICS, CONSTRUCTION AND APPEARANCE.

| NO. | REVISION | DATE | BY |
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1706 THURBET ROAD, SUITE 100  
SACRAMENTO, CA 95815  
916.641.1400 FAX  
WWW.ECOMENGINEERING.COM  
JOB NO. 17-L131 MSS  
DESIGNED: J.M.

SYMBOLS LIST, NOTES, & SCHEDULES  
NEW FIRE STATION ACCESS ROAD  
AND PARKING LOTS FOR QUARRY  
ADVENTURE PARK

City of  
Rocklin



|          |              |
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| SCALE    | AS NOTED     |
| JOB NO.  | 17-L131.00   |
| DESIGNED | MSS          |
| DRAWN    | ECOM         |
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| CHECKED  | ECJ          |
| DATE     | MAY 11, 2017 |

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING**  
 CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-01-E  
 Outdoor Lighting (Page 1 of 4)  
 Project Name: City of Rocklin - Fire Road and Parking Lot Lighting Date Prepared: 5/9/2017

**A. General Information**

Project Address: City of Rocklin Total Illuminated Hardscape Area: 98680

Phase of Construction:  New Construction  Addition  Alteration

Outdoor Lighting Zone (LZ)  LZ-1  LZ-2  LZ-3  LZ-4

I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

**B. Lighting Compliance Documents** (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

NRCC-LTO-01-E Certificate of Compliance  
 NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance  
 NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance  
 NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance

**C. Summary of Allowed Outdoor Lighting Power**

|  | Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1   | Watts  |
|--|---|--------|
| 01   | Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2. | 5065.7 |
| Complies ONLY if Installed (Box 02) ≤ Allowed (Box 01) |   |        |
| 02   | Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.  | 2574   |

**D. Declaration of Required Installation Certificates**

Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

NRCC-LTO-01-E - Must be submitted for all buildings  Field Inspector  
 NRCC-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.  Field Inspector

**E. Declaration of Required Certificates of Acceptance**

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.  Field Inspector

**F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7**

| 01             | 02  |
|----------------|---|
| Name or Symbol | Description of exempt luminaire in accordance with the exemptions |
|                |   |
|                |   |
|                |   |
|                |   |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING**  
 CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-01-E  
 Outdoor Lighting (Page 2 of 4)  
 Project Name: City of Rocklin - Fire Road and Parking Lot Lighting Date Prepared: 5/9/2017

**G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)**

| 01             | 02  |
|----------------|---|
| Name or Symbol | Description of exempt luminaire in accordance with the exemptions |
| S1,S2,S3,S4    | POLE MOUNT LED PENDANT - LESS THAN 150W PER FIXTURE               |
|                |   |
|                |   |
|                |   |

**H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)**

| 01             | 02  |
|----------------|---|
| Name or Symbol | Description of exempt luminaire in accordance with the exemptions |
|                |   |
|                |   |
|                |   |
|                |   |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING**  
 CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-01-E  
 Outdoor Lighting (Page 3 of 4)  
 Project Name: City of Rocklin - Fire Road and Parking Lot Lighting Date Prepared: 5/9/2017

**I. Outdoor Lighting Schedule and Field Inspection Energy Checklist**

| 01                          | 02   | 03                  |                          |                                     | 04                   |  | 05                               | 06                                       | 07                       | 08                       | 09  |  |      |
|-----------------------------|--|---------------------|--------------------------|-------------------------------------|----------------------|--|----------------------------------|--|--------------------------|--------------------------|---|--|------|
|                             |  | Watts per Luminaire | CEC Default from MAB     | According to §130.0(c)              | Number of Luminaires | Total Installed Watts in this area (03 x 05) |                                  |  |                          |                          | Primary Function area in which these luminaires are installed (Outdoor Lighting Zone) | BUG Rating   | Pass |
| S1, S2                      | SINGLE HEAD - POLE MOUNTED LED PENDANT TYPE 3 DISTRIBUTION & TYPE 4 DISTRIBUTION | 99                  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8                    | 792  | PARKING LOT AND SIDEWALK (OLZ 3) | UH:<br>UL:<br>FVH:<br>BVH:<br>FH:<br>BH: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |  |      |
| S3, S4                      | DUAL HEAD - POLE MOUNTED LED PENDANT TYPE 4 DISTRIBUTION & TYPE 5 DISTRIBUTION   | 198                 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9                    | 1782   | PARKING LOT AND SIDEWALK (OLZ 3) | UH:<br>UL:<br>FVH:<br>BVH:<br>FH:<br>BH: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |  |      |
| INSTALLED WATTS PAGE TOTAL: |  |                     |                          |                                     |                      |  |                                  |  |                          |                          | 2574  | Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into NRCC-LTO-01-E, Page 1 | 2574 |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING**  
 CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-01-E  
 Outdoor Lighting (Page 4 of 4)  
 Project Name: City of Rocklin - Fire Road and Parking Lot Lighting Date Prepared: 5/9/2017

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ben Schlenker Documentation Author Signature: *B. Schlenker*  
 Company: ECOM Engineering Signature Date: 5/9/2017  
 Address: 1796 Tribute Road CEA Certification Identification (if applicable):  
 City/State/Zip: Sacramento / CA / 95815 Phone: 916-641-5600

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Eric Johnson Responsible Designer Signature: *E. Johnson*  
 Company: ECOM Engineering Date Signed: 5/9/2017  
 Address: 1796 Tribute Road License: E015404  
 City/State/Zip: Sacramento / CA / 95815 Phone: 916-641-5600

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING CONTROLS**  
 CEC-NRCC-LTO-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-02-E  
 Outdoor Lighting Controls (Page 1 of 3)  
 Project Name: City of Rocklin - Fire Road and Parking Lot Lighting Date Prepared: 5/9/2017

**A. Mandatory Outdoor Lighting Control Declaration Statements**

Check all that apply:

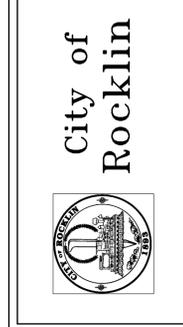
- Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight, and Glare requirements in accordance with Section 130.2(b).
- All installed outdoor lighting shall be controlled by a photocontrol, outdoor astronomical time-switch control or other controls capable of automatically switching OFF in accordance with Section 130.2(c)1.
- All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- For Outdoor Sales Frontage, an automatic lighting control in accordance with Section 130.2(c)4.
- For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)5.
- Before an occupancy permit is granted for the newly constructed building or for the addition, or there are any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

| NO. | REVISION | DATE | BY |
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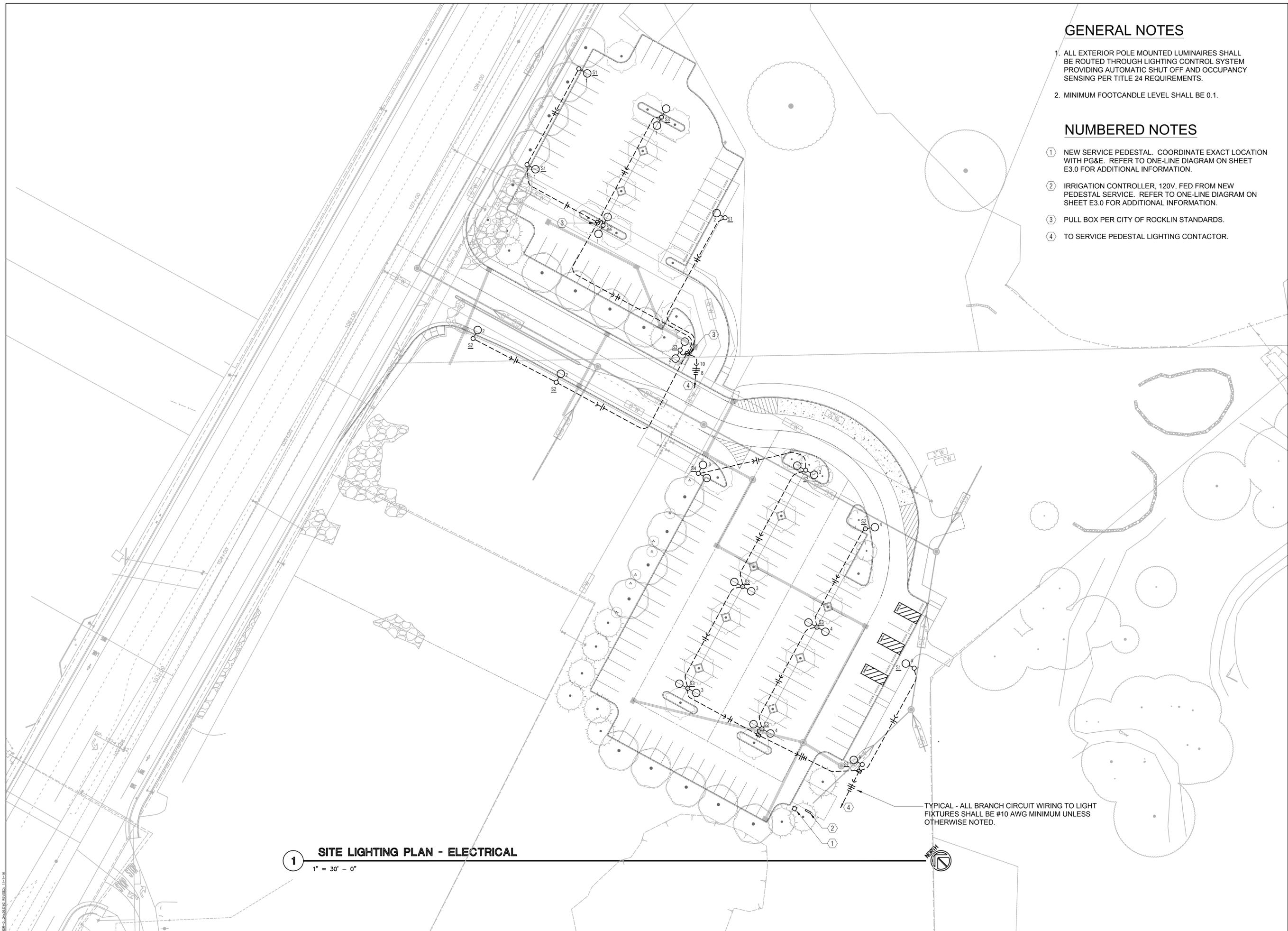
1796 TRIBUTE ROAD, SUITE 100  
 SACRAMENTO, CA 95815  
 916.641.1796 FAX  
 WWW.ECOMENGINEERING.COM  
 JOB NO. 2017-1131 P. MSS  
 ECOM ENGINEERING

TITLE 24 - OUTDOOR LIGHTING  
 NEW FIRE STATION ACCESS ROAD  
 AND PARKING LOTS FOR QUARRY  
 ADVENTURE PARK



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| DATE     | MAY 11, 2017 |





**GENERAL NOTES**

1. ALL EXTERIOR POLE MOUNTED LUMINAIRES SHALL BE ROUTED THROUGH LIGHTING CONTROL SYSTEM PROVIDING AUTOMATIC SHUT OFF AND OCCUPANCY SENSING PER TITLE 24 REQUIREMENTS.
2. MINIMUM FOOTCANDLE LEVEL SHALL BE 0.1.

**NUMBERED NOTES**

- ① NEW SERVICE PEDESTAL. COORDINATE EXACT LOCATION WITH PG&E. REFER TO ONE-LINE DIAGRAM ON SHEET E3.0 FOR ADDITIONAL INFORMATION.
- ② IRRIGATION CONTROLLER. 120V. FED FROM NEW PEDESTAL SERVICE. REFER TO ONE-LINE DIAGRAM ON SHEET E3.0 FOR ADDITIONAL INFORMATION.
- ③ PULL BOX PER CITY OF ROCKLIN STANDARDS.
- ④ TO SERVICE PEDESTAL LIGHTING CONTACTOR.

**1 SITE LIGHTING PLAN - ELECTRICAL**  
1" = 30' - 0"

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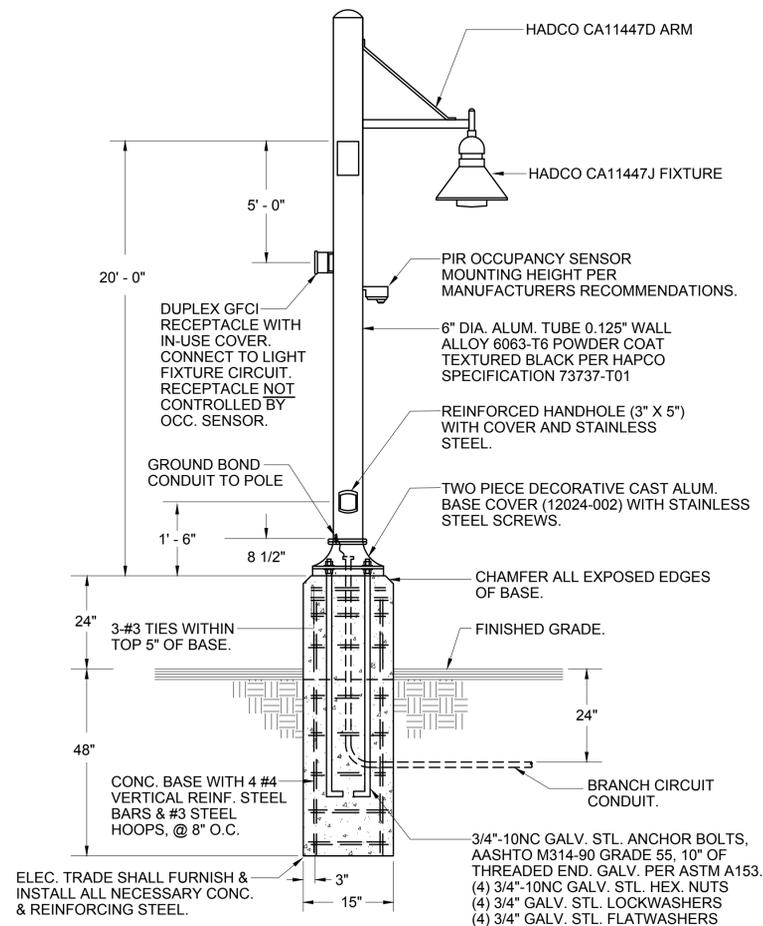
1706 THURSTON ROAD, SUITE 100  
SACRAMENTO, CA 95825  
916.641.1484 FAX  
WWW.ECOMENG.COM  
JOB NO. 2017-L131 P. 1/5  
ISSUES: JM

**SITE LIGHTING PLAN - ELECTRICAL**  
**NEW FIRE STATION ACCESS ROAD AND PARKING LOTS FOR QUARRY ADVENTURE PARK**

**City of Rocklin**

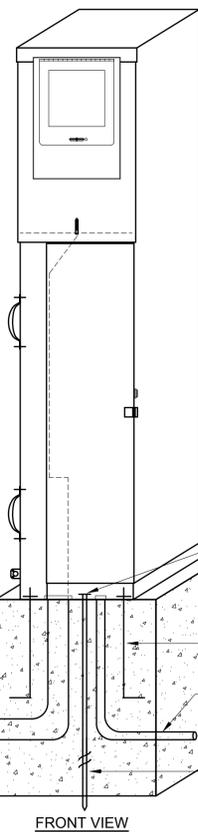
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**3 POLE LIGHT DETAIL**

NO SCALE



**ENCLOSURE CONSTRUCTION NOTES**

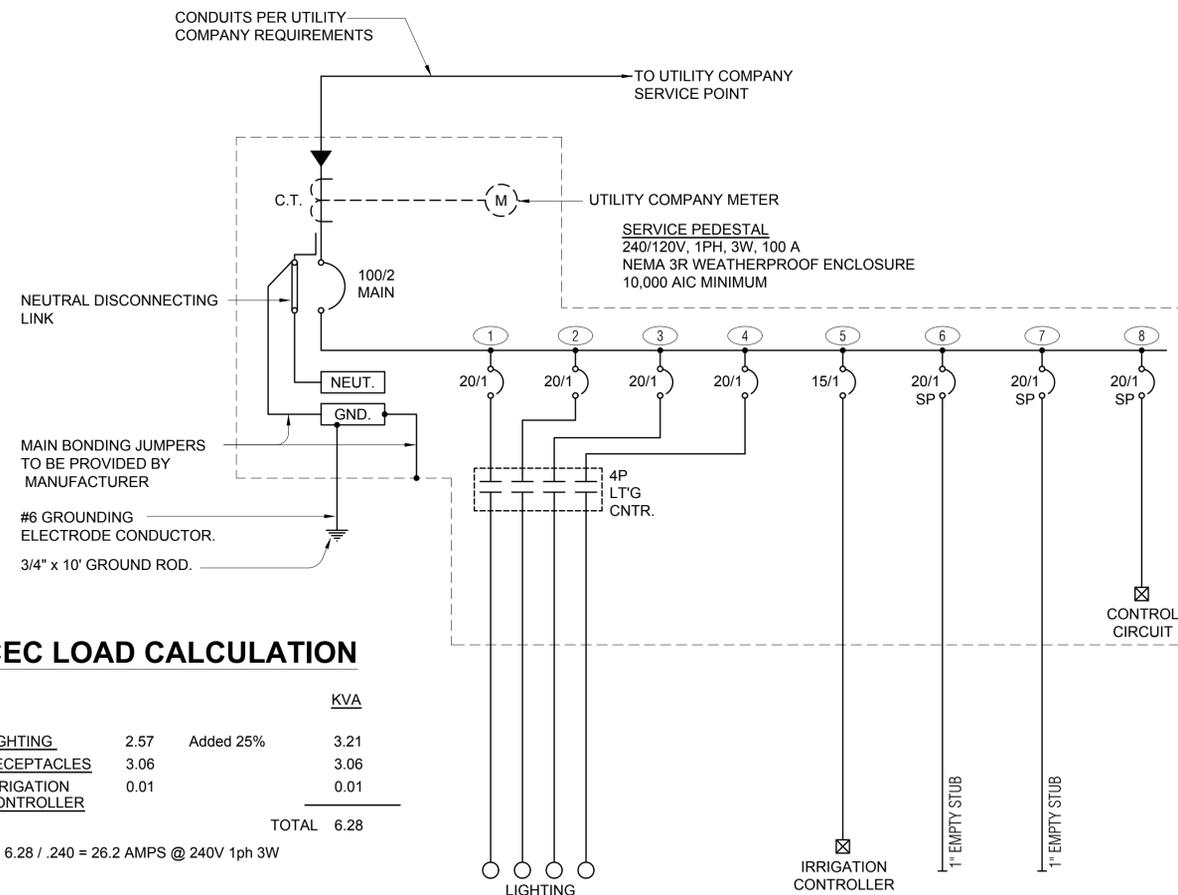
1. FABRICATED FROM 14 GA. STAINLESS STEEL AND INT. 14 GA. COLD ROLLED ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION WILL BE NEMA 3R, RAIN TIGHT.
3. ALL NUTS, BOLTS AND SCREWS WILL BE STAINLESS STEEL.
4. NUTS, BOLTS & SCREWS WILL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
5. NAMEPLATES WILL BE PROVIDED AS REQUIRED.
6. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
7. A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
8. ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA STANDARDS AND SHALL BEAR A UL 508 LABEL.

**POWER PEDESTAL DESCRIPTION**

1. 100 AMP METER SOCKET AND SUPPORT HARDWARE.
2. 1-100/2 CIRCUIT BREAKER (MAIN DISCONNECT).
3. 4-20/1 CIRCUIT BREAKER (LIGHTING).
4. 1-15/1 CIRCUIT BREAKER (CONTROLS).
5. 3-20/1 CIRCUIT BREAKERS (MISC).
6. 1-40 AMP 4 POLE CONTACTOR 120 VOLT COIL.
7. 1- TEST SWITCH.
8. PHOTOCELL.
9. TITLE 24 COMPLIANT TIMECLOCK.

**1 PEDESTAL DETAIL**

NO SCALE



**CEC LOAD CALCULATION**

|                       |      |           | KVA         |
|-----------------------|------|-----------|-------------|
| LIGHTING              | 2.57 | Added 25% | 3.21        |
| RECEPTACLES           | 3.06 |           | 3.06        |
| IRRIGATION CONTROLLER | 0.01 |           | 0.01        |
| <b>TOTAL</b>          |      |           | <b>6.28</b> |

6.28 / .240 = 26.2 AMPS @ 240V 1ph 3W

**2 NEW SERVICE ONE LINE DIAGRAM**

NO SCALE

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1706 THURGOOD ROAD, SUITE 100  
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 JOB NO. 2017-L131 M. MSS  
 DESIGNER: J.M.

ONE-LINE DIAGRAM, LOAD CALCS, & DETAILS  
 NEW FIRE STATION ACCESS ROAD  
 AND PARKING LOTS FOR QUARRY  
 ADVENTURE PARK

City of  
 Rocklin

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