

**SANTA BARBARA COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT**



**NOTICE TO BIDDERS
AND
SPECIAL PROVISIONS**

FOR

MISSION CREEK DEBRIS BASIN STORM DRAIN PROJECT

FIN PROJECT NO. SC8358

BID OPENING LOCATIONS:

Attention: Front Counter

**Santa Barbara County Flood Control and Water Conservation District Offices:
Naomi Swartz Building, 130 E. Victoria Street, Suite 200, Santa Barbara, CA 93101
North County Public Works Office, 620 West Foster Road, Santa Maria, CA 93455**

BIDS OPEN: 2:00 P.M.

September 1, 2016

Electronic Advertising Contract

**SCOTT D. MCGOLPIN
DIRECTOR OF PUBLIC WORKS**

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**SANTA BARBARA COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
NOTICE TO BIDDERS**

Sealed bids will be received until 2:00 PM, September 1, 2016, for the Mission Creek Debris Basin Storm Drain Project at the front counter of the;

Santa Barbara County Flood Control and
Water Conservation District office
Naomi Schwartz Building
130 E. Victoria Street, Suite 200
Santa Barbara, CA 93101
Tel. (805) 568-3440

or

North County Public Works office
620 West Foster Road
Santa Maria, CA 93455
Tel. (805) 739-8750

Each bid will be publicly opened and read at or about that time.

GENERAL WORK DESCRIPTION: The Project generally consists of providing water pollution control; traffic control; abandoning and modifying drainage pipes; installation of 18" and 24" diameter storm drain pipe and appurtenances; construction of minor cast-in-place reinforced concrete structures; protection of existing facilities and utilities; replacement of asphalt concrete pavement; and placement of painted traffic stripes and pavement markings.

PROJECT LOCATION DESCRIPTION: The work occurs in the unincorporated area of Santa Barbara County near Santa Barbara, California, within Public Road Right of Way and District owned property.

Complete the work within **fifty five (55) working days**.

Dodge Green Sheet Value Code D.

A non-mandatory pre-bid job walk is scheduled for 10:00 AM, August 24, 2016. Bidders interested in attending are to meet at the project site located at the intersection of Tunnel Road and Orange Grove Ave.

The Plans, Specifications, Bid Book and other Contract Documents are available at no charge at:

<http://www.countyofsb.org/pwd/pwwater.aspx?id=3600>.

No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

For each bid all forms must be filled out as indicated in the bid documents. The entire Bid Book must be submitted. Proposals by Bidder(s) not listed as a holder of plans and specifications on the Plan Holders of Record Sheets will be returned unopened.

Submit your bid with bidder's security equal to at least 10 percent of the Bid.

Pursuant to the provisions of Section 1770 et seq. of the California Labor Code, the Prime Contractor shall pay not less than the prevailing rate of per diem wages as determined by the Director of the Department of Industrial Relations. A copy of the prevailing rate of per diem wages is on file at the office of the Santa Barbara County Flood Control and Water Conservation District. In addition, the Prime Contractor shall be responsible for compliance with the requirements of Section 1777.5 of the California Labor Code relating to use of apprentice

labor on public works contracts. The OWNER policy is to encourage the employment and training of apprentices on its construction contracts as may be permitted under local apprenticeship standards.

Pursuant to Section 22300 of the Public Contract Code, and the project specifications, the Contractor may substitute securities for monies withheld to ensure contract performance.

The Contractor shall be subject to the provisions of Article XIII, Chapter 2, of the Santa Barbara County Code, prohibiting unlawful discrimination of employment practices.

The Bidder shall possess a Class A General Engineering Contractor license or a combination of Class C licenses which constitute the majority of the work in accordance with the provisions of Chapter 9, Division III of the Business and Professions Code at the time that the Bid is submitted. Failure to possess the required license(s) shall render the Bid as non-responsive and shall act as a bar to award of the Contract to any bidder not possessing said license.

Inquiries or questions based on alleged patent ambiguity of the plans, specifications or estimate must be submitted as a bidder inquiry prior to 2:00 p.m. on the Friday of the week preceding bid opening. Submittals after this date will not be addressed. Questions pertaining to this Project prior to Award of the Contract shall be directed to:

Mgriff@cosbpw.net or (805) 884-8074

Include "Project No. SC8358" in the subject field.

Bidders (Plan Holders of Record) will be notified by electronic mail if addendums are issued. The addendums, if issued, will only be available on the County Website:

<http://www.countyofsb.org/pwd/pwwater.aspx?id=3600>

Bidders are required to acknowledge receipt of all addendums where noted on the Bid Form.

The OWNER reserves the right to reject any or all bids, to waive any informalities and/or inconsistencies in a bid, and to make awards to the lowest responsive, responsible bidder as it may best serve the interest of the OWNER.

Date: AUGUST 5, 2016

OWNER: The Santa Barbara County Flood Control and Water Conservation District


By: Thomas D. Fayram

FOR Thomas D. Fayram
Deputy Director, Public Works
Water Resources Division

**SPECIAL PROVISIONS
FOR
Mission Creek Debris Basin Storm Drain Project**

FIN PROJECT NO. SC8358

The special provisions contained herein have been prepared under the direction of the following Registered Persons.


REGISTERED CIVIL ENGINEER

8/4/16
DATE




PROJECT MANAGER

8/5/16
DATE


APPROVAL RECOMMENDED - ENGINEERING MANAGER

8-5-16
DATE

ORIGINAL TO BE SIGNED

APPROVED BY DEPUTY DIRECTOR OF PUBLIC WORKS,
WATER RESOURCES

DATE

COPY OF BID ITEM LIST

Item No.	F¹	Item Code	Description	Unit	Quantity	Unit Price	Item Total
1		051260A	Construction Survey	LS	1	\$	\$
2		120100	Traffic Control System	LS	1	\$	\$
3		130100	Job Site Management	LS	1	\$	\$
4		130200	Prepare Water Pollution Control Program	LS	1	\$	\$
5		15204#	Remove and Reconstruct Chain-link Fence	LF	24	\$	\$
6		15205#	Abandon 18 inch CMP with Slurry Cement	EA	2	\$	\$
7		160102	Clear and Grubbing	LS	1	\$	\$
8		192001A	Additional Subgrade Overexcavation	CY	5	\$	\$
9		390136	Minor Hot Mix Asphalt	Ton	70	\$	\$
10	F	46021#	Manta Ray MR-2 Ground Anchors	EA	14	\$	\$
11		510502A	Catch Basin (SPPWC 300-3)	EA	1	\$	\$
12		510502B	Manhole (SPPWC 321-2)	EA	3	\$	\$
13		510502C	Junction Structure (SPPWC 331-3)	EA	2	\$	\$
14		510502D	Concrete Collar (SPPWC 380-4, D ₁ = 18")	EA	2	\$	\$
15		641107	18-inch HDPE Type S	LF	8	\$	\$
16		652311	18-inch Reinforced Concrete Pipe (Class III, Rubber Gasket Joint)	LF	40	\$	\$
17		652316	24-inch Reinforced Concrete Pipe (Class III, Rubber Gasket Joint)	LF	190	\$	\$
18		665018	18-inch Corrugated Steel Pipe (0.109-inches thick)	LF	132	\$	\$
19		692307	18-Inch Anchor Assembly	EA	8	\$	\$
20		692409	Cable Anchorage System	EA	2	\$	\$
21		705011	18-inch Steel Flared End Section	EA	1	\$	\$

¹ "F" denotes Final Pay Item

Item No.	F ¹	Item Code	Description	Unit	Quantity	Unit Price	Item Total
22		999990	Mobilization	LS	1	\$	\$
CONTRACTOR'S BID ITEMS SUBTOTAL							
TOTAL BID							

FLOOD CONTROL DISTRICT PROVISIONS

The work provided herein must be performed in accordance with the Caltrans Standard Specifications 2010 edition (Standard Specifications). The Standard Specifications is incorporated herein by reference.

MODIFICATIONS TO STANDARD SPECIFICATIONS

DIVISION I GENERAL PROVISIONS

1 GENERAL

Add to the 1st table in section 1-1.06:

AA	Aluminum Association
AMS	Aerospace Material Specifications
APWA	The American Public Works Association
SAE	Society of Automotive Engineers

Acceptance: The formal written approval by the Agency of a project which has been completed in all respects in accordance with the plans and specifications and any modifications thereof.

Agency: The Santa Barbara County (CA) Flood Control and Water Conservation District.

APWA Standard Plans: Standard Plans for Public Works Construction, promulgated by the American Public Works Association (Southern California Chapter)/Associated General Contractors of California (Southern California Districts) Joint Cooperative Committee, published by Building News Inc., 3055 Overland Avenue, Los Angeles, California 90034, 2009 edition.

Board: The Governing Board of Directors of the Santa Barbara County (CA) Flood Control and Water Conservation District.

Caltrans: State of California, Business & Transportation Agency, Department of Transportation

business day: Day on the calendar except Saturday, Sunday or holiday.

County: The County of Santa Barbara, a political subdivision of the State of California.

County Clerk: The County Clerk of the County of Santa Barbara.

County Standard Details: Standard Details of the County of Santa Barbara Department of Public Works Roads Division, dated September, 2011.

Department: The Santa Barbara County Flood Control District acting by and through its Department of Public Works; its authorized representatives.

Department of Transportation: The Santa Barbara County (CA) Flood Control and Water Conservation District

District: The Santa Barbara County (CA) Flood Control and Water Conservation District

District Office: The Santa Barbara County (CA) Flood Control and Water Conservation District Office

Director: Director of Public Works of the County of Santa Barbara, or the Director's duly authorized representative.

Engineer: The Flood Control District Engineer acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties delegated to them.

Flood Control: The Santa Barbara County (CA) Flood Control and Water Conservation District

Green Book: Standard Specifications for Public Works Construction, 2006 edition, including supplements published by Building News, Inc., Los Angeles, CA.

High Risk Facilities: Facilities conducting the following materials, whether encased or not, are considered to be High Risk facilities:

1. Petroleum Products,
2. Oxygen,
3. Chlorine,
4. Toxic or flammable gases,
5. Natural gas in pipelines greater than 150 mm (6 inches) nominal pipe diameter, or pipelines with normal operating pressures greater than 415 kPa gauge (60 p.s.i.g.),
6. Underground electric supply lines, conductors or cables that have a potential to ground of more than 300 volts, either directly buried or in duct or conduit, which do not have concentric grounded or other effectively grounded metal shields or sheaths.

Holiday: Holiday shown in the following table:

Holidays	
Holiday	Date observed
Every Sunday	Every Sunday
New Year's Day	January 1st
Birthday of Martin Luther King, Jr.	3rd Monday in January
Washington's Birthday	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	1st Monday in September
Veterans Day	November 11th
Thanksgiving Day	4th Thursday in November
Day after Thanksgiving Day	Day after Thanksgiving Day
Christmas Day	December 25th

If January 1st, February 12th, March 31st, July 4th, November 11th, or December 25th falls on a Sunday, the Monday following is a holiday. If November 11th falls on a Saturday, the preceding Friday is a holiday.

Low Risk Facilities: Facilities conducting the following materials are considered to be Low Risk facilities:

1. Natural gas in pipelines 150 mm (6 inches) or smaller (nominal pipe diameter) with normal operating pressures of 415 kPa gauge (60 p.s.i.g.) or less.
2. Underground electric supply lines, conductors or cables with a potential to ground of more than 300 volts, either directly buried or in duct or conduit, which do have concentric grounded or other effectively grounded metal shields or sheaths, and for which the utility owner furnished location information in conformance with the requirements of Article 17.7, "Location Information" of General Order No. 128 of the California Public Utility Commission, or electrical underground conductors with a potential to ground of 300 volts or less.

Owner: Same meaning as Agency.

Prompt: The briefest interval of time required for a considered reply, including time required for approval by governing body.

State: The State of California and its political subdivisions; The Santa Barbara County (CA) Flood Control and Water Conservation District

State Highway Engineer: The Santa Barbara County (CA) Flood Control and Water Conservation District

State Standard Plans: Standard plans prepared by State of California, Business & Transportation Agency, Department of Transportation (Caltrans).

Supplemental Work: Change Order Work.

Replace section 1-1.12 with:

Replace section 3-1.05 with:

3-1.05 CONTRACT BONDS (PUB CONT CODE §§ 10221 AND 10222)

The successful bidder must furnish 2 bonds:

1. Payment bond to secure the claim payments of laborers, workers, mechanics, or materialmen providing goods, labor, or services under the Contract. This bond must be equal to at least 100 percent of the total bid. The payment bond must also contain provisions which automatically increase amounts thereof and/or time of completion or both for all change orders, extensions and additions to the work provided pursuant to this Agreement.
2. Performance bond to guarantee the faithful performance of the Contract. This bond must be equal to at least 100 percent of the total bid.

You may provide alternative securities for monies withheld to ensure performance per the terms of Public Contract Code § 22300.

The District furnishes the successful bidder with bond forms.

Both the payment and performance bonds must be executed by one and only one surety. That Surety must be admitted and listed in the Insurance Organizations Authorized By The Insurance Commissioner To Transact Business Of Insurance In The State Of California for the current year, and must be further authorized by the commissioner to issue surety insurance.

Replace section 3-1.18 with:

The successful bidder must sign the District Agreement (Contract).

Deliver to the District:

1. Three (3) copies of the District Agreement (Contract) bearing original signatures.
2. Two (2) copies of the Performance and Payment Bonds.
3. Insurance Certificates.
4. Taxpayer identification and certification (IRS Form W-9).
5. For a federal-aid contract, Caltrans Bidder - DBE Information form.
6. A copy of your company's policy on drugs and alcohol.
7. A copy of your Injury and Illness Prevention Program.

The District must receive these documents before the 8th business day after the bidder receives the Contract.

4 SCOPE OF WORK

Add to list in the 1st paragraph of section 4-1.06B:

3. Material differing from that represented in the Contract which you believe may be hazardous waste;
4. Subsurface or latent physical conditions at the site differing from those described by and shown in information available to bidders prior to submitting bids;

Add to end of section 4-1.06B:

The local public entity will promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in your cost of, or the time required for performance of any part of the work will issue a change order under the procedures described in the Contract.

5 CONTROL OF WORK

Add to section 5-1.01:

Before starting Work, you must contact all jurisdictional agencies and determine from each: 1) scope of work to be inspected and by whom, 2) scope of testing, and 3) advance notice required.

During the course of work, you must be responsible for calling for testing and inspection as required by the jurisdictional agencies. Work not properly tested and inspected will be subject to rejection.

If any work that is to be inspected, tested or approved is covered by you without written concurrence of the Engineer, it must, if requested by the Engineer, be uncovered for observation. Uncovering work will be at the your expense unless you have given Engineer timely notice of your intention to cover the same and Engineer has not acted with reasonable promptness to such notice.

Any plan or method of work suggested by the Owner or the Engineer to you but not specified or required, if adopted or followed by you in whole or in part, must be used at the risk and responsibility of you; and the Owner and the Engineer must assume no responsibility therefor and in no way be held liable for any defects in the work which may result from or be caused by use of such plan or method of work.

Replace the 2nd paragraph of section 5-1.02 with:

If a discrepancy exists:

1. The governing ranking of Contract parts in descending order is:
 - 1.1. Permits from other agencies as may be required by law
 - 1.2. Addendums
 - 1.3. Technical provisions
 - 1.4. Flood Control District provisions
 - 1.5. Project plans
 - 1.6. Revised standard specifications
 - 1.7. Standard specifications
 - 1.8. Revised standard plans
 - 1.9. Standard plans
 - 1.10. Information Handout
 - 1.11. Supplemental project information (except where supplemental project information is designated as not a contract document).
2. Written numbers and notes on a drawing govern over graphics
3. A detail drawing governs over a general drawing
4. A detail specification governs over a general specification
5. A specification in a section governs over a specification referenced by that section

Except, when there is a conflict of working hours the more stringent requirement will apply. Change Orders, Supplemental Agreements, and approved revisions to Plans and Specifications will take precedence over Items 2) through 6) above. Detailed plans will have precedence over general plans.

Add to section 5-1.03:

If you and the District are unable to reach agreement on disputed work, the District may order you to proceed with the work. Payment will be as later determined by arbitration, if the District and you agree thereto, or as fixed in a court of law.

Although not to be construed as proceeding under extra work provisions, you must proceed as provided in Section 9-1.04, Force Account.

Add to section 5-1.09:

Section 5-1.09 applies if there is a bid item for Partnering.

Add to section 5-1.16:

You must notify the Owner, in writing, when you desire to change the Project Manager and Superintendent for the Project, and must provide in writing the name, qualifications, and experience statements of the personnel proposed by you to be used.

Add to section 5-1.17:

You must implement a policy on drugs and alcohol conforming to 49 CFR 40.

Submit a copy of your policy at the preconstruction meeting.

Add to section 5-1.23:

Make all submittals to the Engineer.

Materials must not be furnished or fabricated, nor any work done for which shop drawings or submittals are required, before those shop drawings or submittals have been reviewed, as provided herein. Neither review nor approval of shop drawings or submittals by the Engineer will relieve you from responsibility for errors, omissions, or deviations from the Bid Documents, unless such deviations were specifically called to the attention of the Engineer in the letter of transmittal. You will be responsible for the correctness of the submittals and shop drawings, including shop fits, field connections, and results obtained by use of such drawings.

You must pay Flood Control for review of any submission that varies from what the plans and specifications have called for, and/or for the review of any submission that is redundant (for example, submitting similar portland cement concrete mix designs from more than one supplier).

Add to list under the 3rd paragraph of section 5-1.23A:

5. Federal Project Number, if any

Add section 5-1.23B(2)(a):

5-1.23B(2)(a) Record Drawings

You must maintain a complete and accurate record of all changes of construction from that shown in these plans and specifications for the purpose of providing a basis for construction record drawings. No changes must be made without prior written approval of the Engineer.

Upon completion of the project, you must deliver a reproducible print record of all of the approved construction changes to the Engineer along with a separate letter certifying that other than the noted changes on this record, the project was constructed in conformance with the Bid Documents. Failure to submit the final record drawing may result in final payment request not being processed.

Add to section 5-1.23C:

Where the manufacturer of any material or equipment provides written recommendations or instructions for its use or method in installation (including labels, tags, manuals, or trade literature), such recommendations or instructions must be complied with except where the contract documents specifically require deviations. Copies of such manufacturer's recommendations must be provided by you to the Engineer.

Replace "3" in the second paragraph of section 5-1.27B with "4"

Add to section 5-1.30

The Agency will not be precluded or stopped by any measurement, estimate, or certificate made either before or after the completion and acceptance of the work and payment therefor from showing the true quantity and character of the work performed and materials furnished by you, nor from showing that any such measurement, estimate, or certificate is untrue or is incorrectly made, nor that the work or materials do not in fact conform to the contract.

The Agency will not be precluded or estopped, notwithstanding any such measurement, estimate, or certificate and payment in accordance therewith, from recovering from you, your surety, or both, such damages as it may sustain by reason of your failure to comply with the terms of the contract.

The failure of the Engineer to observe or to notify you of deviations from the approved plans and specifications, whether or not such deviations could have been corrected if such notification had been given, will in no way relieve you of any responsibility or liability for your failure to complete, and you will be required to repair and complete the work covered by this contract in exact accordance with the approved plans and specifications and all applicable laws and regulations; and the Agency will not be estopped or be deemed to have waived its right to insist on exact compliance by you with the plans and specifications and other terms of the contract because of such failure to observe or notify you of such defects or because of any progress or final payments made to you pursuant to the terms of this contract or the issuance of any inspection reports or any certificates of partial or final completion.

Materials incorporated into the Project without the required release tags or Certificates of Compliance must be removed, if directed by the Engineer, at no cost to the District.

^^

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Replace section 7-1.02I(1) with:

7-1.02I(1) Santa Barbara County Code, Chapter 2, Article XIII

Sec. 2-94. - Exceptions.

The provisions of this article shall not apply to contracts or agreements for the acquisition, exchange or disposition of real property or interests therein, nor to contracts or agreements with the State of California, or its political subdivisions, or with the United States of America.

Sec. 2-95. - Prohibition of unlawful discrimination in employment practices.

The County of Santa Barbara reserves the right to terminate forthwith each and every written contract and agreement (except purchase orders) respecting real property, goods and/or services entered into by the County of Santa Barbara including but not limited to concessions, franchises, construction agreements, leases, whether now in effect or hereinafter made if the County finds that the Contractor is discriminating or has discriminated against any person in violation of any applicable state or federal laws, rules or regulations which may now or hereafter specifically prohibit such discrimination on such grounds as race, religion, sex, color, national origin, physical or mental disability, Vietnam era veteran/disabled, age, medical condition, marital status, ancestry, sexual orientation, or other legally protected status. This right of termination extends to contracts entered into by the County of Santa Barbara or by its joint powers, agencies or agents so long as the County obtains the consent of those parties.

Such finding may only be made after Contractor has had a full and fair hearing on notice of thirty days before an impartial hearing officer at which hearing Contractor may introduce evidence, produce witnesses and have the opportunity to cross-examine witnesses produced by the County. Further, any finding of discrimination must be fully supported by the facts developed at such hearing and set forth in a written opinion; and in addition, Contractor may move in the appropriate court of law for damages and/or to compel specific performance of a Contractor or agreement if any of the above procedures are not afforded to the Contractor. If Contractor is not found to have engaged in unlawful discriminatory practices, County shall pay all costs and expenses of such hearing, including reasonable attorneys' fees, to Contractor in accordance with current Santa Barbara County Superior Court schedule of attorneys' fees for civil trials. If Contractor is found to have engaged in such unlawful discriminatory employment practices, Contractor shall pay all such costs, expenses and attorneys' fees.

Whether or not a contract or agreement is still in existence at the time of final determination of such unlawful discrimination, the Contractor shall forthwith reimburse the County for all damages directly stemming from such discrimination; however, those damages shall not exceed and are not reimbursable in an amount which exceeds amounts paid to Contractor under the terms of the contract or agreement.

Nothing in this section 2-95 shall directly or by interpretation give a private cause of action to any third party (not a signatory to the contract or agreement) including employees past or present, or applicants for employment to Contractor, it being the sole purpose of this clause to administratively assure compliance with the nondiscrimination clauses contained herein.

With respect to employment discrimination, employment practices shall include, but are not limited to, employment, promotion, demotion, transfer, recruitment and advertising for recruitment, layoff or other termination, rate of pay, employee benefits and all other forms of compensation or selection for training and apprenticeship and probationary periods.

Contractor shall permit access at all reasonable times and places to all of its records of employment, advertising, application forms, tests and all other pertinent employment data and records, to the County of

Santa Barbara, its officers, employees and agents for the purpose of investigation to ascertain if any unlawful discrimination as described herein has occurred or is being practiced, provided that such records are relevant to a complaint of an unlawful discriminatory practice which has been forwarded to Contractor reasonably prior to the time Contractor is asked to make such records available. In addition, all such records shall be deemed "Confidential" by the officers, employees and agents of the County. No records or copies of such records may be removed from the premises of Contractor, and no disclosure, oral or written, of such record may be made to third parties except as provided within the agreement. Provided, however, that in the event of a hearing to determine whether or not Contractor is engaging in unlawful discrimination in employment practices as defined herein, the Board of Supervisors of Santa Barbara County may issue subpoenas to require that certified copies of such records be made available to the hearing.

Failure to fully comply with any of the foregoing provisions shall be deemed to be a material breach of any contract or agreement with the County of Santa Barbara. All persons contracting with or who have contracts for goods or services with the County shall be notified that this chapter applies to their contract or agreement with the County of Santa Barbara.

Sec. 2-95.5. - Exceptions.

Notwithstanding any other provisions in this article, any party contracting with the County of Santa Barbara having an affirmative action program which has been approved within twelve months from the date of the contract by an agency of the federal government shall be deemed to be in compliance with the provisions of this article upon furnishing documentary evidence of such approval satisfactory to the County Affirmative Action Officer. Loss of such approval shall be immediately reported by such party to the County Affirmative Action Officer.

Sec. 2-96. - Purchase orders.

Purchase orders shall contain the following clause as grounds for termination of such purchase order.

"If complaint is made that seller is engaging in discriminatory employment practices made unlawful by applicable state and federal laws, rules or regulations, and the State Fair Employment Practice Commission or the Federal Equal Employment Opportunities Commission determines that such unlawful discrimination exists, then the County of Santa Barbara may forthwith terminate this order."

Sec. 2-97. - Affirmative Action Officer.

At the discretion of the County Affirmative Action Officer, he or she shall promptly and thoroughly investigate, or cause to be investigated reports and complaints from whatever source, that any party contracting with the County of Santa Barbara is engaging, or during the term of a contract or agreement with the County of Santa Barbara has engaged, in any unlawful discriminatory employment practices as described in section 2-95 of this Code. If the investigation discloses reason to believe such unlawful discrimination does exist or has existed and the conditions giving rise thereto have not been changed so as to prevent further such unlawful discrimination, and the said party shall not forthwith terminate such unlawful discrimination, take all appropriate steps to prevent a recurrence of such or other unlawful practices, and compensate the person or persons unlawfully discriminated against for any and all loss incurred by reason of such unlawful discrimination, all to the satisfaction of the Affirmative Action Officer, then the Affirmative Action Officer shall cause the matter to be presented for action to the State Fair Employment Practices Commission or the Federal Equal Employment Opportunities Commission, or both, and to any other concerned state or federal agencies or officers.

If and when it has been finally determined by the Affirmative Action Officer, County Counsel, or state or federal regulatory agencies that such unlawful discriminatory employment practice has in fact so occurred or are being carried on, then the Affirmative Action Officer shall forthwith present the entire matter to the Board of Supervisors of the County, together with all damages, costs and expenses related thereto and incurred by County, for appropriate action by the Board of Supervisors in accord with the intent and purposes of this article and of the affirmative action program of the County of Santa Barbara.

Sec. 2-98. - Youth group anti-discrimination.

- (a) Neither the County of Santa Barbara, nor any of its agencies, departments, affiliates, or political subdivisions over which it exercises jurisdiction, shall:

- (1) Deny any youth group equal access to, or fair opportunity to conduct meetings or other events at, or otherwise utilize any public facility;
 - (2) Deny any youth group use permits or licenses regarding, or otherwise withhold from any youth group permission to use, any public facility; or
 - (3) Otherwise discriminate against any youth group; on the basis of the membership or leadership criteria of such youth group.
- (b) For purposes of this section, a public facility shall include any public forum, limited public forum, public property, or public area including any public building, park, beach, campground, or any other area controlled or operated by the County of Santa Barbara.
- (c) For purposes of this section, a youth group means any group or organization intended to serve young people under the age of twenty-one.

Add to section 7-1.02K(1):

No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

7-1.02K(1)(a) Joint Labor Compliance Monitoring Program

The Joint Labor Compliance Monitoring Program monitors labor compliance by conducting interviews with construction workers at the job site. You, and all subcontractors, must cooperate in allowing approved Compliance Group Representatives along with a County employee access to the project employees and work site for the purpose of conducting worker interview to ensure compliance with the requirement to pay prevailing wages on County projects. This will be done in order to comply with the Board of Supervisors July 10, 2012 adoption of a Joint Labor Compliance Monitoring Program.

Each Compliance Group Representative will always be accompanied with a County employee for a joint contractor worker interview. The Compliance Group Representative will be issued an identification card by the County at the job site. Compliance Group Representatives must restrict their actions to interviewing workers employed on the project. A copy of the Joint Labor Compliance Monitoring Program and Board Letter adoption from July 10, 2012 is available on request.

Add to section 7-1.02K(5):

Working hours on working days, will be from 7:00 a.m. to 5:00 p.m. No work will be done or noise generated outside those hours except such work as is necessary for the proper care and protection of the work already performed or in case of an emergency.

You must be responsible for overtime compensation of inspection personnel for their work that occurs outside the above stated hours. The actual costs will be deducted from your payment.

Add to section 7-1.02K(6)(a):

Your Injury and Illness Prevention Program must include:

1. Safety manual
2. Jobsite checklist
3. Equipment safety checklist
4. Tailgate safety meetings
5. Permit application and job notification form (Construction, Demolition, Trenches, Excavation, Building, Structures, Falsework, Scaffolding) Form Cal/OSHA S-691, latest edition

Add to section 7-1.02K(6)(b):

You must obtain a State Division of Industrial Safety Permit for excavations and trenches prior to commencement of any excavation or trench of 5 feet or more in depth per California Code of Regulations, Title 8, Chapter 3.2, Article 2, Section 341 and Title 8, Division 1, Chapter 4, Subchapter 4 of the California Occupational Safety and

Health Regulations (Cal/OSHA). A copy of the permit must be submitted to the Engineer. All excavations must be completed and maintained in a safe and stable condition throughout the total construction phase in order to protect persons, property, trees and improvements. Structure and trench excavations must be completed to the specified elevations and to the length and width required to safely install, adjust, and remove any forms, bracing, or supports necessary for the installation of the work and/or protection of existing features. Excavations outside of the lines and limits shown on the drawings or specified herein required to meet safety requirements must be your responsibility in constructing and maintaining a safe and stable excavation.

Replace section 7-1.02P with:

7-1.02P County Ordinance

7-1.02P(1) General

Comply with County Ordinances.

Copies of County Ordinances are available at http://www.municode.com/library/CA/Santa_Barbara_County, and at County offices located at 123 East Anapamu Street, Santa Barbara, CA 93101.

Any references in State Standard Specifications to statutory provisions applicable only to state contracts or which are inconsistent with statutory provisions applicable to County or local agency contracts, will not prevail over, and will be superseded by, any statutory provisions applicable to County or local agency contracts.

7-1.02P(2) Grading

Comply with section 13.

Santa Barbara County Grading Ordinance and Santa Barbara Flood Control and Water Conservation District Ordinance No. 35 prohibits the dumping of debris or other materials in a watercourse so as to obstruct or impede normal flow of water therein.

7-1.02P(3) Preservation of Monuments

Comply with Ordinance 1491, in particular, County Code Chapter 28, Article I, Section 49.

Replace section 7-1.05 with:

7-1.05 INDEMNIFICATION

Indemnification and liability coverage in this section, Indemnification and Insurance, will mean the County of Santa Barbara, the Santa Barbara County Flood Control District, Designated Representative, Architect/Engineer, and their officials, agents and employees.

To the maximum extent permitted by law, you must fully defend, indemnify and hold harmless the County and its board, departments, officers, officials, employees, agents and volunteers (collectively, "INDEMNITEE"), from and against any and all third party claims, allegations, suits, actions, legal or administrative proceedings, judgments, debts, demands, damages, including those involving injury or death to any person or persons, and damage to any property including loss of use resulting therefrom, incidental and consequential damages, liabilities, interest, costs, attorneys' fees and expenses of whatsoever kind of nature whether arising before, during or after commencement or completion of this Contract, whether against you or the INDEMNITEE which are in any manner, directly, indirectly, in whole or in part, arising from breach of any provision of the Contract, or any act, omission, fault or negligence, whether active or passive, of you, a subcontractor or anyone directly or indirectly employed by them or anyone for whose acts they may be liable in connection with or incident to the Contract, even though the same may have resulted from the joint, concurring or contributory negligence, or from the passive negligence, of the INDEMNITEE or any other person or persons, unless the same be caused by the sole negligence or willful misconduct of the INDEMNITEE, or except to the extent caused by the active negligence of INDEMNITEE. In instances where the INDEMNITEE'S active negligence accounts for a percentage of the liability involved, the obligation of you to defend, indemnify and hold harmless must be for the entire percentage of liability not attributable to that active negligence.

You must notify the County immediately in the event of any accident or injury arising out of or in connection with this Agreement.

Replace section 7-1.06 with:

7-1.06 INSURANCE

Additional Insured – All policies, except for the Workers' Compensation, Errors and Omissions and Professional Liability and Automobile Liability policies, must contain endorsements naming the County and its officers, employees, agents and volunteers as additional insureds with respect to liabilities arising out of the performance of services hereunder. The additional insured endorsements must not limit the scope of coverage for the County to vicarious liability but must allow coverage for the County to the full extent provided by the policy. Such additional insured coverage must be at least as broad as Additional Insured (Form B) endorsement form ISO, CG 2010.11 85.

Waiver of Subrogation Rights – You must require the carriers of required coverages to waive all rights of subrogation against the County, its officers, employees, agents, volunteers, contractors and subcontractors. All general or auto liability insurance coverage provided must not prohibit you and your employees or agents from waiving the right of subrogation prior to a loss or claim. You hereby waives all rights of subrogation against the County.

Policies Primary and Non-Contributory – All policies required herein are to be primary and non-contributory with any insurance or self-insurance programs carried or administered by the County.

Severability of Interests – You agree to ensure that coverage provided to meet these requirements is applicable separately to each insured and there will be no cross liability exclusions that preclude coverage for suits between you and the County or between the County and any other insured or additional insured under the policy.

Proof of Coverage – You must furnish Certificates of Insurance to the County Department administering the Agreement evidencing the insurance coverage, including Additional Insured Endorsements and Waiver of Subrogation Endorsements (a.k.a.: Waiver of Transfer Rights of Recovery Against Other, Waiver of Our Right to Recover from Others), as required, prior to the commencement of performance of services hereunder, which certificates must provide that such insurance must not be terminated or expire without thirty (30) days written notice to the Department, you must maintain such insurance from the time you commence performance of services hereunder until the completion of such services. Within fifteen (15) days of the commencement of this Agreement, You must furnish a copy of the Declaration page for all applicable policies and will provide complete copies of the policies and endorsements immediately upon request.

Acceptability of Insurance Carrier – Unless otherwise approved by Risk Management, insurance shall be written by insurers authorized to do business in the State of California and with a minimum A.M. Best's Insurance Guide rating of "A- VII".

Deductibles and Self-Insured Retention – Any and all self-insured retentions of any limit or deductibles exceeding \$10,000 must be declared to and approved by Risk Management.

Failure to Procure Coverage – In the event that any policy of insurance required under this Agreement does not comply with the requirements, is not procured, or is canceled and not replaced, the County has the right but not the obligation or duty to cancel the Agreement or obtain insurance if it deems necessary and any premiums paid by the County will be promptly reimbursed by you or the County payments you will be reduced to pay for the County purchased insurance.

Insurance Review – Insurance requirements are subject to periodic review by the County. The Risk Manager or designee is authorized, but not required, to reduce, waive or suspend any insurance requirements whenever Risk Management determines that any of the required insurance is not available, is unreasonably priced, or is not needed to protect the interests of the County. In addition, if the Division of Risk Management determines that heretofore unreasonably priced or unavailable types of insurance coverage or coverage limits become reasonably priced or available, the Risk Manager or designee is authorized, but not required, to change the above insurance requirements to require additional types of insurance coverage or higher coverage limits, provided that any such change is reasonable in light of past claims against the County, inflation, or any other item reasonably related to the County's risk.

Any change requiring additional types of insurance coverage or higher coverage limits must be made by amendment to this Agreement. You agree to execute any such amendment within thirty (30) days of receipt.

Any failure, actual or alleged, on the part of the County to monitor or enforce compliance with any of the insurance and indemnification requirements will not be deemed as a waiver of any rights on the part of the County.

Insurance Specifications – You agree to provide insurance set forth in accordance with the requirements herein. If you use existing coverage to comply with these requirements and that coverage does not meet the specified requirements, you agree to amend, supplement or endorse the existing coverage to do so. The type(s) of insurance required is determined by the scope of the contract services.

Without in any way affecting the indemnity herein provided and in addition thereto, you must secure and maintain throughout the Agreement term the following types of insurance with limits as shown:

7-1.06A Workers' Compensation/Employers Liability

A program of Workers' Compensation insurance or a state-approved, self-insurance program in an amount and form to meet all applicable requirements of the Labor Code of the State of California, including Employer's Liability with one million dollar (\$1,000,000) limits covering all persons including volunteers providing services on your behalf and all risks to such persons under this Agreement.

If you have no employees, you may certify or warrant to the County that you do not currently have any employees or individuals who are defined as "employees" under the Labor Code and the requirement for Workers' Compensation coverage will be waived by the County's Risk Manager.

With respect to the Contractors that are non-profit corporations organized under California or Federal law, volunteers for such entities are required to be covered by Workers' Compensation insurance.

7-1.06B. Commercial/General Liability Insurance

You must carry General Liability Insurance on an "occurrence" basis, covering all operations performed by or on your behalf providing coverage for bodily injury and property damage, including products and completed operations, with a combined single limit of not less than one million dollars (\$1,000,000) per occurrence and two million dollars (\$2,000,000) in the aggregate.

7-1.06C. Automobile Liability Insurance

Primary insurance coverage must be written on ISO Business Auto coverage form for all owned, hired and non-owned automobiles or symbol 1 (any auto). The policy must have a combined single limit of not less than one million dollars (\$1,000,000) for bodily injury and property damage, per occurrence.

If you do not own any autos, a non-owned auto endorsement to the General Liability policy described above is acceptable.

7-1.06D. Umbrella/Excess Liability Insurance

You must carry an umbrella (over primary) or excess policy of five million dollars (\$5,000,000). The umbrella policy shall apply to bodily injury/property damage, personal injury/advertising injury and must include a "dropdown" provision providing primary coverage for any liability not covered by the primary policy. The coverage must also apply to automobile liability. An Additional Insured Endorsement must be provided on the Umbrella policy as it relates to the primary policies requiring an Additional Insured Endorsement.

7-1.06E. Enforcement

The County may take any steps as are necessary to assure your compliance with its obligations. Should any insurance policy lapse or be canceled during the contract period you must, within thirty (30) days prior to the effective expiration or cancellation date, furnish the Department with evidence of renewal or replacement of the policy. Failure to continuously maintain insurance coverage as herein provided is a material breach of contract. In the event you fail to maintain any insurance coverage required, the County may at their sole discretion, but is not required to, maintain this coverage and charge the expense to you or terminate this Agreement.

Insurance coverage in the minimum quantities set forth herein must not be construed to relieve you for liability in excess of such coverage, nor will it preclude the County from taking other actions as is available to it under any other provision of the contract or law. Failure of the County to enforce in a timely manner any of the provisions of this section will not act as a waiver to enforcement of any of these provisions at a later date.

7-1.06F. Self Insurance

Self-insurance programs and self-insured retentions insurance policies are subject to separate annual review and approval by the County for evidence of your financial capacity to respond. Additionally, self-insurance

programs or retentions must provide the State with at least the same protection from liability and defense of suits as would be afforded by first-dollar insurance.

7-1.06G. Miscellaneous

Nothing contained in the Contract is intended to make the public or any member thereof a third party beneficiary of the Insurance or Indemnity provisions of these Standard Specifications, nor is any term, condition or other provision of the Contract intended to establish a standard of care owed to the public or any member thereof.

7-1.06H. Subcontractors

Contractors shall include all subcontractors as insurers under its policies or shall furnish separate certificates for each subcontractor. All coverage for subcontractors shall be subject to all of the requirements stated herein.

^^

8 PROSECUTION AND PROGRESS

Replace the 1st paragraph of section 8-1.04B with:

The District will issue you a Notice to Proceed after the Contract has been awarded. Start job activities within 26 calendar days after the project has been awarded by the Board of Directors of the Santa Barbara County Flood Control District, or the Board of Directors' authorized representative, and only after you have received a Notice to Proceed.

Replace the 1st paragraph of section 8-1.05 with:

Contract time starts on the day specified in the Notice to Proceed regardless of when you start job site activities.

Add to section 8-1.06B:

When existing conditions are encountered which, in the opinion of the Engineer, require temporary suspension of work for design modifications or for other determinations to be made, you must move to other areas of work until such determinations are made. No additional compensation will be allowed by reason of such temporary suspension of work when you can reasonably reschedule work at a different location.

Add section 8-1.06D:

8-1.06D Temporary Suspension of Work

You must notify the District 24 hours minimum in advance if you decide to suspend work for one day or more. You must notify the District a minimum of 24 hours in advance of recommencing work on the project.

Add to end of section 8-1.13:

Any control exercised by the Surety towards the completion of the Project will be subject to the Bid documents, and review and approval of the District.

^^

9 PAYMENT

Add to section 9-1.06A:

Section 9-1.06 does NOT apply to supplemental work.

The District does not pay for eliminated supplemental work.

Add to section 9-1.16A:

Submit support data with application for progress payment.

Support data must include:

1. Data required by Engineer
2. Copies of requisitions from Subcontractors and material suppliers

Include the County of Santa Barbara Auditor-Controller contract number as shown on executed Agreement.

Submit the following certification with each application for progress payment:

I, the undersigned, declare under penalty of perjury under the laws of the State of California that this Application for Payment is made in good faith, that the documents substantiating this application are accurate and complete and that the foregoing is true and correct.

BY: _____

Date: _____

(TYPE OR PRINT NAME AND TITLE OF
PERSON SIGNING APPLICATION)

Any progress payment made after the scheduled completion date will not constitute a waiver of any liquidated damages heretofore agreed upon as part of this Contract.

Add to first paragraph of section 9-1.16B:

Submit a schedule of values for any lump sum bid item requested by the Engineer or when a schedule of values is specified to be submitted.

Replace section 9-1.16F with:

9-1.16F Prompt Payment of Funds Withheld to Subcontractors

The District shall hold five (5) percent retainage from the prime contractor and shall make prompt and regular incremental acceptances of portions, as determined by the District, of the contract work, and pay retainage to the prime contractor based on these acceptances. The prime contractor, or subcontractor, shall return all monies withheld in retention from a subcontractor within 30 days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the contract work by the agency. Federal law (49CFR26.29) requires that any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of this provision shall subject the violating prime contractor or subcontractor to the penalties, sanctions and other remedies specified in Section 7108.5 of the Business and Professions Code. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the prime contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor.

Pursuant to Section 22300 of the Public Contract Code, and the project specifications, the Contractor may substitute securities for monies withheld to ensure contract performance.

Upon your request, the District will make payment of funds withheld to ensure performance of the Contract if you deposit in escrow with the Santa Barbara County Treasurer, or with a bank acceptable to the District, securities eligible for investment under Government Code Section 16430, or bank or savings and loan certificates of deposits, upon the following conditions;

1. You must bear the expense of the District and the escrow agent, either the County Treasurer or the bank, in connection with the escrow deposit made.
2. Securities or certificates of deposit to be placed in escrow will be of a value at least equivalent to the quantities of retention to be paid to you pursuant to this Section.
3. You must enter into an escrow agreement satisfactory to the District, which agreement must include provisions governing inter alia:
 - 1.1. The quantity of securities to be deposited.

TECHNICAL PROVISIONS

DIVISION I GENERAL PROVISIONS

1 GENERAL

Add to section 1-1.01:

Bid Items and Applicable Sections

Item Code	Item Description	Applicable Section
051260A	Construction Survey	5
999990	Mobilization	9

2 BIDDING

Add to section 2-1.06B:

The District makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Available as specified in the <i>Standard Specifications</i>	1. Chapter 6 of the Caltrans Encroachment Permit Manual
Included in the <i>Information Handout</i>	2. Final Mitigated Declaration – Mission Creek Debris Basin Storm Drain; June 15, 2016
Included in the <i>Information Handout</i>	3. Environmental Permits, Licenses, Agreements and Certificates (PLACs)
Included in the <i>Information Handout</i>	4. County of Santa Barbara, Department of Public Works – Transportation Division, Road Encroachment Permit general permit requirements
Included in the <i>Information Handout</i>	5. Project Information Sign Template
Included in the <i>Information Handout</i>	6. Standard Details and Plans

5 CONTROL OF WORK

Add section 5-1.01A:

Work must only occur between 7:00 AM and 4:30 PM, unless otherwise approved.

If you desire to work outside of this time frame, you must receive consent from the District. If consent is given, you will be responsible for payment of construction manager and/or inspector's overtime costs and you must comply with Section 7-102K(5) regarding Labor Code requirements.

Add to section 5-1.20B(1):

Comply with "Final Mitigated Declaration – Mission Creek Debris Basin Storm Drain; June 15, 2016" mitigations and control measures related to construction. These include, but may not be limited to, section 4.3 Dust Control Measures and Diesel Emissions Control Measures, section 4.4 Mitigation Measure BIO-1, section 4.5 Mitigation Measure AR-1, section 4.7 Mitigation Measure FIRE-1, and section 4.12 Mitigation Measure NOISE-1. Any necessary biological or archeological monitoring will be provided by the District.

Copies of the Final Mitigated Declaration and of the PLACs applicable to this project are located in the Information Handout.

A Department of Fish and Wildlife - Streambed Alteration Agreement for work within Mission Creek will be issued for this project. You are responsible for complying with the Streambed Alteration Agreement.

A County of Santa Barbara, Department of Public Works – Transportation Division, Road Encroachment Permit will be issued for this project. You are responsible for complying with the road encroachment permit. A copy of the encroachment permit general permit requirements is located in the Information Handout. Coordinate permit compliance with the Engineer.

Replace section 5-1.26 with:

5-1.26 CONSTRUCTION SURVEYS

5-1.26A General

5-1.26A(1) Summary

Section 5-1.26 includes general specifications for construction surveys, furnishing and setting construction stakes and marks to establish the lines and grades required to control the work.

Construction surveys must comply with Chapter 12, 'Construction Surveys,' of the California Department of Transportation Surveys Manual as determined by the Engineer.

The location and elevation of benchmarks and horizontal control points are shown on the plans. The Engineer will not provide any additional survey services for the project.

5-1.26A(2) Submittals

Submit name, license number and contact information of the professional land surveyor prior to beginning staking.

Submit proposed procedures, methods, and equipment to be used.

Submit all computations, notes and other data used to accomplish the work.

5-1.26B Material

Not used

5-1.26C Construction

Perform construction staking under the direction of a Professional Land Surveyor registered in the State of California.

Within 2 working days of receiving notification to proceed with right-of-way staking, stake County right-of-way. Maintain right-of-way corner stakes throughout construction.

Furnish and set stakes and marks with accuracy adequate to assure completed work conforms to lines, grades and sections shown.

All conflicts between the construction drawings and the actual field conditions must be brought to the attention of the Engineer for review prior to work continuing in the area of conflict.

Remove all stakes when no longer needed.

5-1.26D Payment

Not used

Revise the first two paragraphs of section 5-1.32 to read:

Occupy Santa Barbara County Road Right of Way and Flood Control District owned property only for the purposes to perform the work.

Equipment and material may not be stored in Santa Barbara County Road Right of Way during non-working hours without written approval from the Roads permit office. Equipment and material may be stored in the staging area designated by the Engineer on the Flood Control District owned Mission Creek Debris Basin property, accessible from Mission Canyon Road, during non-working hours.

Comply with the timing and access restrictions in section 10-1.03.

Add to section 5-1.36D:

You must provide the regional notification center "Inquiry Identification" number to the District prior to the commencement of excavation or other work close to any underground facility. You are responsible for keeping the Inquiry Identification number valid throughout the duration of the construction contract.

The locations of all public and private utilities shown on the plans are approximate.

The utilities shown in the following table must be protected in place by you and will not be rearranged. The Southern California Gas contact is Fred Pettit, (805) 681-8057 [secondary contact is Karl Monteleone, (805) 681-7945]. The Southern California Edison contact is Larry Charbonneau, (805) 683-5292. The City of Santa Barbara Contact is Maggi Heinrich, (805) 564-5406.

Utilities Not Rearranged for Construction

Utility Owner	Location	Description
Southern CA Edison, Frontier Communications and Cox Communications	Station 100+00 to 102+30	Overhead Electric and Communications
Private Service	Station 100+03	2 inch water
Private Service	Station 100+09	2 4 inch electric/communication conduits
City of Santa Barbara	Station 100+26	6 inch Water lateral
City of Santa Barbara	Station 101+51	2 inch Water lateral
City of Santa Barbara	Station 102+02	4 inch Water Main in 10 inch casing
City of Santa Barbara	Station 102+04	12 inch Water Main
So Cal Gas	Station 102+11	3 inch Gas Main

Your proposed methods of protection must be to the satisfaction of the utility owner. You must submit a detailed description of the proposed methods of protection two weeks prior to exposing the subject utility. You must notify the utility owner 48 hours in advance of exposing underground utilities and/or implementing protective measures.

Bedding and pipe zone material for City of Santa Barbara water lines must be placed in accordance with City of Santa Barbara Standard Details U-01.0 and U-01.1.

You must protectively wrap exposed gas lines when directed to do so by Southern California Gas.

AA

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Replace section 7-1.02M(2) with:

7-1.02M(2) Fire Prevention

Cooperate with local fire prevention authorities in eliminating hazardous fire conditions.

Obtain the phone numbers of the nearest fire suppression agency, California Department of Forestry and Fire Protection (Cal Fire) unit headquarters, United States Forest Service (USFS) ranger district office, and U.S. Department of Interior (USDI) BLM field office. Submit these phone numbers to the Engineer before the start of job site activities.

Immediately report to the nearest fire suppression agency fires occurring within the project limits.

Cal Fire, USFS, and BLM have established the following adjective class ratings for 5 levels of fire danger for use in public information releases and fire protection signing: low, moderate, high, very high, extreme. Obtain the fire danger rating daily for the project area from the nearest Cal Fire unit headquarters, USFS ranger district office, or BLM field office.

If directed by the Engineer you must make all Roads accessible for two way travel immediately. If such direction is given due to circumstances for which you are not responsible then this work will be paid for as change order work.

7-1.02M(2)a Fire PreventionSPECIAL "Red Flag Day" CONDITION:

1. No work is permitted during "Red Flag Warning" posting issued by the National Weather Service and Fire Department at the location indicated on fire weather zone map.
2. If work is in operation when "Red Flag Warning" warning is announced, stop the work & open road immediately.
3. After the Red Flag Warning is lifted and the condition falls under Fire Weather Watch Criteria, the work may be allowed per the approval of the Fire Dept. and Permits Section and the following items listed below are required.
 - a. Maximum delay 10 minutes, flagmen required on each end. If needs more than 10 min. delay, notify Fire Department
 - c. Provide 1000 gallon water truck at all times with 100 feet of hose, shovels and 2@10gallons fire extinguisher (Type C).
 - d. No smoking is allowed.
 - e. Fire department permit is required for any "hot work" operation such as welding, grinding, etc.
 - f. No stockpiling, materials, equipment, etc. are allowed on shoulder.
 - g. Monitor the area for 30 minutes after all work stops.
 - h. Any conflicting requirements for the road encroachment permit, the most restrictive governs.
 - i. Any changes on the permit shall be submitted in writing to this office for approval.

Add section 7-1.03A:

7-1.03A STANDARD NOTIFICATIONS

You must deliver notices to each residence adjacent to the Work (all residences with a 300 foot radius and all residences uphill of the project site for which Tunnel Road is there only means of ingress and

gress) two weeks minimum prior to commencement of project activities. The format and content of each notice must be approved by the Engineer (see example below).

Such notice must at minimum give the name of the Project, the duration of the Contract period, daily work hours for the proposed work, typical parking and access restrictions anticipated for the work the Contractor's representative and phone number, the County representative and phone number, along with any other information requested by the Engineer. All notices shall be approved by the Engineer for content and delivery schedule prior to actual delivery.

All notices must be in the format of door hangers (14 inches by 4 inches, 110 Springhill Index or approved equal) and be hung at the main door of each residence or business affected. The text of such notices must have one side printed in English with the reverse side printed in Spanish.

The following is an example of language required:

NOTICE

TO AREA RESIDENCES

The Santa Barbara County Flood Control District hereby informs you that (Contractor) will be constructing the Name of Project. The contract period is from (date) to (date).

Work on the Project will typically be performed between the hours of 7:00 AM and 4:30 PM.

We appreciate your patience and cooperation during this Project. If you have any questions, or require additional information please contact the following:

Contractor, Contact's Name and Telephone Number

Santa Barbara County Flood Control District, Contact's Name and Telephone Number

^

9 PAYMENT

Add to section 9-1.16C:

The following items are eligible for progress payment even if they are not incorporated into the work:

1. RCP
2. CMP

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DIVISION II GENERAL CONSTRUCTION

Bid Items and Applicable Division		
Item code	Item description	Applicable section
120100	Traffic Control System	12
130100	Job Site Management	13
130200	Prepare Water Pollution Control Program	13
15204#	Remove and Reconstruct Chain-link Fence	15
15205#	Abandon 18 inch CMP with Slurry Cement	15

10 GENERAL

Add to in section 10-1.01 of the RSS with:

The following is a general description of the type of work for each bid item listed in the Bid Item List, and is not intended to be all-inclusive. Comply with the contract documents for the work.

Bid items quantified as lump sum items are required to submit a schedule of values per section 9-1.16B. The schedule of values must be authorized by the Engineer prior to progress payments.

Bid items of work shown on the plans or indicated in the specifications which are not specifically identified in the bid item descriptions are included in lump sum items of work and must be identified in the Schedule of Values submittal by the Contractor and no additional payment will be made.

Summary Bid Item Descriptions:

Contractor Bid Items:

1. Construction Survey
Comply with Section 5 of the Caltrans Standard Specifications and these special provisions.
2. Traffic Control System
Comply with section 12 of the Caltrans Standard Specification and these special provisions. Traffic Control System is intended to be an all-inclusive item to pay for contractor to prepared traffic control plan and implemented traffic control system during the project. The contractor must submit traffic control plans to the Engineer for approval. Implementation of the Traffic Control System includes all items listed in the authorized Traffic Control Plan including but not limited to constriction area signs, flashing beacons, barricades and any other required traffic appurtenances.
3. Job Site Management
Comply with section 13-4 of the Caltrans Standard Specification and these special provisions. Job Site Management includes specifications for performing job site management including spill prevention control, material management, waste management, and non-stormwater management activities. Implement effective handling, storage, usage, and disposal practices to control material pollution and manage waste and non-stormwater at the job site before they enter the storm drain systems and receiving waters.
Payment for compliance and implementation of mitigation measures is considered included in Job Site Management and no separate payment will be included.
4. Prepare Water Pollution Control Program
Comply with Section 13-2 of the Caltrans Standard Specification and these special provisions. Prepare Water Pollution Control Plans includes developing and implementing the WPCP, providing a water pollution control manager, conducting water pollution control training, and monitoring, inspecting and correcting water pollution control practices.
5. Remove and Reconstruct Chain-link Fence
Comply with sections 15 and 80 of the Caltrans Standard Specification and these special provisions.
6. Abandon 18 inch CMP with Slurry Cement
Comply with section 15 of the Caltrans Standard Specification and these special provisions.
7. Clear and Grubbing
Comply with section 16 of the Caltrans Standard Specifications and these special provisions

8. Additional Subgrade Overexcavation
Comply with section 19 of the Caltrans Standard Specifications and these special provisions
9. Minor Hot Mix Asphalt
Comply with section 39 of the Caltrans Standard Specifications and these special provisions. Bid item for Minor Hot Mix Asphalt includes replacement pavement striping affected by the work. The contractor must replace all pavement striping and markings in kind after completion of the work.
10. Manta Ray MR-2 Ground Anchors
Comply with section 46 of the Caltrans Standard Specifications and these special provisions. Installation of Manta Ray anchors per manufacturer instructions. Each anchor must include hardware to fit the Manta Ray Anchor to the 18-inch anchor assembly and or cable anchor assembly. Hardware must meet Caltrans standard anchor assembly requirements.
11. Catch Basin (SPPWC 300-3)
Comply with section 51 of the Caltrans Standard Specifications, Santa Barbara County Engineering Standard Details as described in the plans and these special provisions.
12. Manhole (SPPWC 321-2)
Comply with section 51 of the Caltrans Standard Specification and these special provisions.
13. Junction Structure (SPPWC 331-3)
Comply with section 51 of the Caltrans Standard Specification and these special provisions.
14. Concrete Collar (SPPWC 380-4, D1 = 18")
Comply with section 51 of the Caltrans Standard Specification and these special provisions.
15. 18-inch HDPE Type S
Comply with section 64 of the Caltrans Standard Specifications and these special provision.
16. 18-inch Reinforced Concrete Pipe (Class III, Rubber Gasket Joint)
Comply with section 65 of the Caltrans Standard Specifications and these special provision. This item includes furnishing and installing pipe, furnishing, finishing, installing and compacting pipe bedding, and backfill material.
17. 24-inch Reinforced Concrete Pipe (Class III, Rubber Gasket Joint)
Comply with section 65 of the Caltrans Standard Specifications and these special provision. This item includes furnishing and installing pipe, finishing, installing and compacting pipe bedding, and backfill material.
18. 18-inch Corrugated Steel Pipe (0.109-inches thick)
Comply with section 66 of the Caltrans Standard Specifications and these special provision. This item includes furnishing and installing pipe, furnishing and installing harnessing system for embankment work, and also including removal of small loose cobbles within the alignment.
19. 18-Inch Anchor Assembly
Comply with section 69 of the Caltrans Standard Specifications and these special provision.
20. Cable Anchorage System
Comply with section 69 of the Caltrans Standard Specifications and these special provision.
21. 18-inch Steel Flared End Section
Comply with section 70 of the Caltrans Standard Specification and these special provisions.
22. Mobilization
As defined in section 9-1.16D of the Caltrans Standard Specification and these special provisions.
The Contractor is responsible for all costs associated with insurance, bonds, permits and fees,

submittals, moving onto the job, establishment of stock pile operations, moving off the job, removal, clean up and restoration of stock pile area and limits of work, project phasing, supervision, coordination of concurrent work with other contractors, meetings and other work indicated in the Contract Documents.

Mobilization, Demobilization and Final Cleanup will be paid for as lump sum based on invoices for mobilization and startup costs in the first payment and then based on percentage of construction completed for all following payments

Replace "Reserved" in section 10-1.03 of the RSS for section 10-1 with:

The District anticipates that the construction contract for this project will be awarded on October 4, 2016, and that a Notice to Proceed will be issued for October 17th as the first working day. You must be prepared to begin work in that time frame.

The Department of Fish and Wildlife - Streambed Alteration Agreement will require all work downstream of STA 102+30 to be completed by November 30th. You will be responsible for any fines or required mitigations if the work downstream of STA 102+30 extends past November 30th.

No vehicles or heavy equipment may cross Mission Creek or the grouted rock debris basin embankment. Laborers may cross the creek on foot with materials.

The Contractor is required to start downstream from the lowest portions of the project working upstream within the system.

The first order of work required is locating the optimal alignment down the embankment from approximately station 102+20 to the end. The pipe alignment may be adjusted as shown in the project plans. Pipe anchors (Manta Ray Anchors MR-2), cable anchorage systems and placement of the pipe will be proposed by the contractor and authorized by the Engineer. In order to accommodate the flattest alignment possible the contractor may safely remove small cobbles in the way of the work. The contractor can expect for the pipe anchorage and cable anchorage systems to potentially be shifted to ease installation. Engineer must approve all new locations.

After the completion of the corrugated pipe and appurtenances the work will proceed up Tunnel Road starting from station 102+30 to station 100+00. The contractor may encounter difficult digging, including rocks or large debris and is to plan accordingly.

^^

12 TEMPORARY TRAFFIC CONTROL

Add to section 12-1.01:

Traffic Control System includes the development of a Traffic Control Plan and maintaining traffic in accordance with Section 12-4.

You may be directed to perform additional Traffic Control. This only applies in the event that change order work that requires additional Traffic Control is ordered by the Engineer. This work is Supplemental Work and will be paid in accordance with section 9-1.04. In no case will additional Traffic Control be paid for unless the project scope has changed.

Add section 12-1.01A:

12-1.01A Submittals

Submit 3 copies of your Traffic Control Plan within 14 days of Contract approval for review. If the Engineer requests changes amend and resubmit the Traffic Control Plan within 3 days. Include the following in the Traffic Control Plan:

1. Construction staging and sequencing, and proposed sidewalk closures and lane closures for each stage.
2. Traffic Control Systems for each sidewalk closure and lane closure including sign and barricade placement.
3. Proposed signage for each sidewalk and lane Closure.

Replace 12-1.03 with

You are required to furnish all flaggers, including transporting flaggers and furnishing stands and towers for flaggers to provide for the passage of traffic through the work as specified in sections 7-1.03 and 7-1.04. This work is included in the bid item Traffic Control System.

Add to section 12-1.04:

At no time are you allowed to close the public streets (roads) to through traffic during working hours. No more than one lane closure to through traffic is allowed at one time during working hours.

Delays to traffic caused by reversible lane closures must be limited to 10 minutes.

Driveway access may be closed temporarily during the work. You must notify all residences affected by the driveway closures and make accommodations for residence access if desired. Notifications must comply with section 7-1.03A. You are required as temporary closures are necessary that the job site superintendent coordinate with affected residences.

You must install temporary steel plate bridging as necessary to maintain full two way traffic on public roads during non-working hours. Temporary steel plate bridging must conform with Section 602.1 of the Caltrans Encroachment Permit Manual, available online at:

http://www.dot.ca.gov/hq/traffops/developserv/permits/pdf/manual/Chapter_6.pdf

Replace "Reserved" in section 12-5 with:

12-5.01 GENERAL

Section 12-5 includes specifications for closing traffic lanes with stationary lane closures on 2-lane, two-way highways.

A traffic control system for a closure includes the temporary traffic control devices described as part of the traffic control system. The temporary traffic control devices must comply with section 12-3.

Traffic Control System includes the placement of Construction Area Signs in conformance with the Road Encroachment permit. At a minimum you must place two C23 and two C14 signs for the duration of the project, as directed by the Engineer. Construction Area Signs must conform to section 12-3.06.

Traffic Control System includes furnishing and placing two Project Information Signs. A template of the Project Information Sign is included in the Information Handout, each must have a minimum size of 48" wide by 36" tall. Project Information Signs must be in place 10 days in advance of any lane closure and may be printed on card stock paper and posted on barricades.

12-5.02 MATERIALS

Not Used

12-5.03 CONSTRUCTION

Whenever components of the traffic control system are displaced or cease to operate or function as specified from any cause, immediately repair the components to the original condition or replace the components and restore the components to the original location.

For a stationary lane closure made only for the work period, remove the components of the traffic control system from the traveled way and shoulder at the end of each work period except for portable delineators placed along open trenches or excavation adjacent to the traveled way.

12-5.04 PAYMENT

A traffic control system for a lane closure is paid for as traffic control system. You must pay for all costs associated with flagging. The requirements in section 4-1.05 for payment adjustment do not apply to

traffic control system. Adjustments in compensation for traffic control system will be made for an increase or decrease in traffic control work if ordered and will be made on the basis of the cost of the necessary increased or decreased traffic control. The adjustment will be made on a force account basis for increased work and estimated on the same basis in the case of decreased work.

A traffic control system required by change order work is paid for as a part of the change order work.

^^

13 WATER POLLUTION CONTROL

Add to section 13-1.01A:

You may be directed to perform additional Water Pollution Control. This only applies in the event that change order work that requires additional Water Pollution Control is ordered by the Engineer. This work is Supplemental Work and will be paid in accordance with section 9-1.04. In no case will additional Water Pollution Control be paid for unless the project scope has changed.

Add section 13-1.03A(1):

13-1.03A(1) Drainage Control

The proposed project is located within a rural residential street. You are fully responsible for continually accepting and discharging water from any source in a manner that causes no damage to existing or partially completed proposed improvements, in a manner that causes no ponded water to accumulate at low points, and in a manner which poses no potential hazard to persons or property and is conformance with all permits required for this project. You will not be allowed to divert stormwater to surface streets. Damage to existing or partially completed proposed improvements caused by lack of drainage control shall be repaired, or removed and replaced, at your expense.

It shall be understood and agreed that you must hold the Owner and the Engineer harmless from legal action taken by any third party with respect to construction and operation of temporary drainage control works.

You must submit your proposed methods for storm water and erosion control to the Engineer.

^^

15 EXISTING FACILITIES

Replace section 15-2.05C with:

15-2.05C Abandon Culverts and Pipelines

15-2.05C(1) General

Abandon culverts or pipelines by removing portions of the culverts or pipelines in the way of the work, and filling the inside of the abandoned pipe with slurry cement.

Notify the Engineer before abandoning a culvert or pipeline.

Remove and dispose of CMP as necessary to construct the proposed improvements.

15-2.05C(2) Materials

Openings into existing structures that are to remain in place must be plugged with minor concrete under section 90.

Gravel, crushed rock or open graded backfill material must be fully encapsulated in filter fabric complying with Section 88-1.02B.

Add to section 19-3.02B:

Trench Backfill material must be slurry cement in accordance with section 19-3.02D, use at least 94 pounds of cement (1 sack) per cubic yard. Trench Backfill in shoulder areas may consist of native, import, or a mixture of the two, free of organic matter and debris, and with no rocks or clumps larger than 3” with a sand equivalent value of 20 or greater. You are responsible for processing native or imported material to meet these criteria and in no event should these specifications be construed as a determination on the suitability of native material for use as Trench Backfill.

Unsuitable or saturated excavated material may not be used as fill material and must be removed from the site.

^^

DIVISION V SURFACINGS AND PAVEMENTS

Bid Items and Applicable Division		
Item code	Item description	Applicable section
390136	Minor Hot Mix Asphalt	39

39 HOT MIX ASPHALT

Add to section 39-7.01A of this RSS:

Comply with section 16-1.03C for root removal.

Add to section 39-7.01D(1) of this RSS:

Method Process compaction shall be used.

Replace section 39-7.02A of this RSS with:

The aggregate for the minor HMA must comply with the 1/2-inch grading.

Treat minor HMA aggregate with lime using the slurry method. Comply with section 39-1.19

Replace section 39-7.02C of this RSS with:

The grade of asphalt binder for minor HMA must be PG-64-10.

Replace section 39-7.03 of this RSS with:

Place and compact minor HMA in two lifts.

Replace pavement stripping and markings in accordance with section 84.

Replace section 39-7.04 of this RSS with:

HMA placed in areas where existing asphalt concrete was removed for your convenience or removed beyond 3 feet from the outside edge of proposed storm drain pipe without prior approval from the Engineer will not be measured or paid for.

^^

DIVISION VI STRUCTURES

Bid Items and Applicable Division		
Item code	Item description	Applicable section
46021#	Manta Ray MR-2 Ground Anchors	46
510502A	Catch Basin (SPPWC 300-3)	51
510502B	Manhole (SPPWC 321-2)	51
510502C	Junction Structure (SPPWC 331-3)	51
510502D	Concrete Collar (SPPWC 380-4)	51

51 CONCRETE STRUCTURES

Add to section 51-7.01A:

Catch Basins, Manholes, Junction Structures and Concrete Collars are minor structures.

Monolithic catch basin connections are considered to be included as part of their associated minor structure.

Add to section 51-7.01B:

Manhole shafts and reducers must comply with Section 70-4.

DIVISION VII DRAINAGE

Bid Items and Applicable Division		
Item code	Item description	Applicable section
641107	18-inch HDPE, Type S	64
652311	18-inch Reinforced Concrete Pipe (Class III, Rubber Gasket Joint)	65
652316	24-inch Reinforced Concrete Pipe (Class III, Rubber Gasket Joint)	65
665018	18-inch Corrugated Steel Pipe (0.109-inches thick)	66
692307	18-Inch Anchor Assembly	69
692409	Cable Anchorage System	69
705011	18-inch Steel Flared End Section	70

65 CONCRETE PIPE

Add to section 65-2.03B:

If you encounter solid rock or other unyielding material at the planned elevation of the bottom of the bedding shown, remove the material below the bottom of the bedding to a depth of 1/50 of the height of the embankment over the top of the culvert, but not less than 6 inches or more than 12 inches. Backfill the resulting trench below the bottom of the bedding with structure backfill material under section 19-3.03E. Do not compact the outer bedding before pipe placement.

The excavation and backfill below the planned elevation of the bottom of the bedding shown is change order work.

Cobbles and boulders are anticipated to be present within the proposed limits of excavation. The presence of cobbles and boulders shall be considered as included in the various items of work and no additional compensation will be allowed therefore except as described herein. The work necessary to remove, excavate around or scale boulders with a greatest dimension of 3 feet, as needed to construct the proposed improvements, is change order work.

STANDARD DETAILS AND PLANS LIST

Description	Standard Number
-------------	-----------------

SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS

The Construction Standard Detail sheets (dated 2011 as amended) applicable to this contract include, but are not limited to those indicated below.

3-010	GENERAL DRAINAGE FACILITIES NOTES
3-050	TYPE C DROP INLET
3-080	STORM DRAIN MANHOLE

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

The Standard Plan sheets (2012 Edition) applicable to this contract include, but are not limited to those indicated below.

300-3	CURB OPENING CATCH BASIN
308-2	MONOLITHIC CATCH BASIN CONNECTION
309-2	CATCH BASIN REINFORCEMENT
312-3	CATCH BASIN MANHOLE FRAME AND COVER
321-2	MANHOLE - PIPE TO PIPE (ONE OF BOTH LINE ID'S 33" OR SMALLER)
324-2	MANHOLE SHAFT - WITH ECCENTRIC REDUCER
331-3	JUNCTION STRUCTURE - PIPE TO PIPE
380-4	CONCRETE COLLAR FOR RCP (12" - 72")
630-3	24" MANHOLE FRAME AND COVER
636-2	POLYPROPYLENE - PLASTIC STEP

STATE DEPARTMENT OF TRANSPORTATION (2010)

A10A-A10B	ABBREVIATIONS
A10C-A10E	SYMBOLS
D87A	CORRUGATED METAL PIPE DOWNDRAIN DETAILS
D87C	CABLE ANCHORAGE SYSTEM
D94A	METAL AND PLASTIC FLARED END SECTIONS
T13	TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

CITY OF SANTA BARBARA PUBLIC WORKS DEPARTMENT CONSTRUCTION STANDARD DETAILS

The Construction Standard Detail sheets (dated 2012) applicable to this contract include, but are not limited to those indicated below.

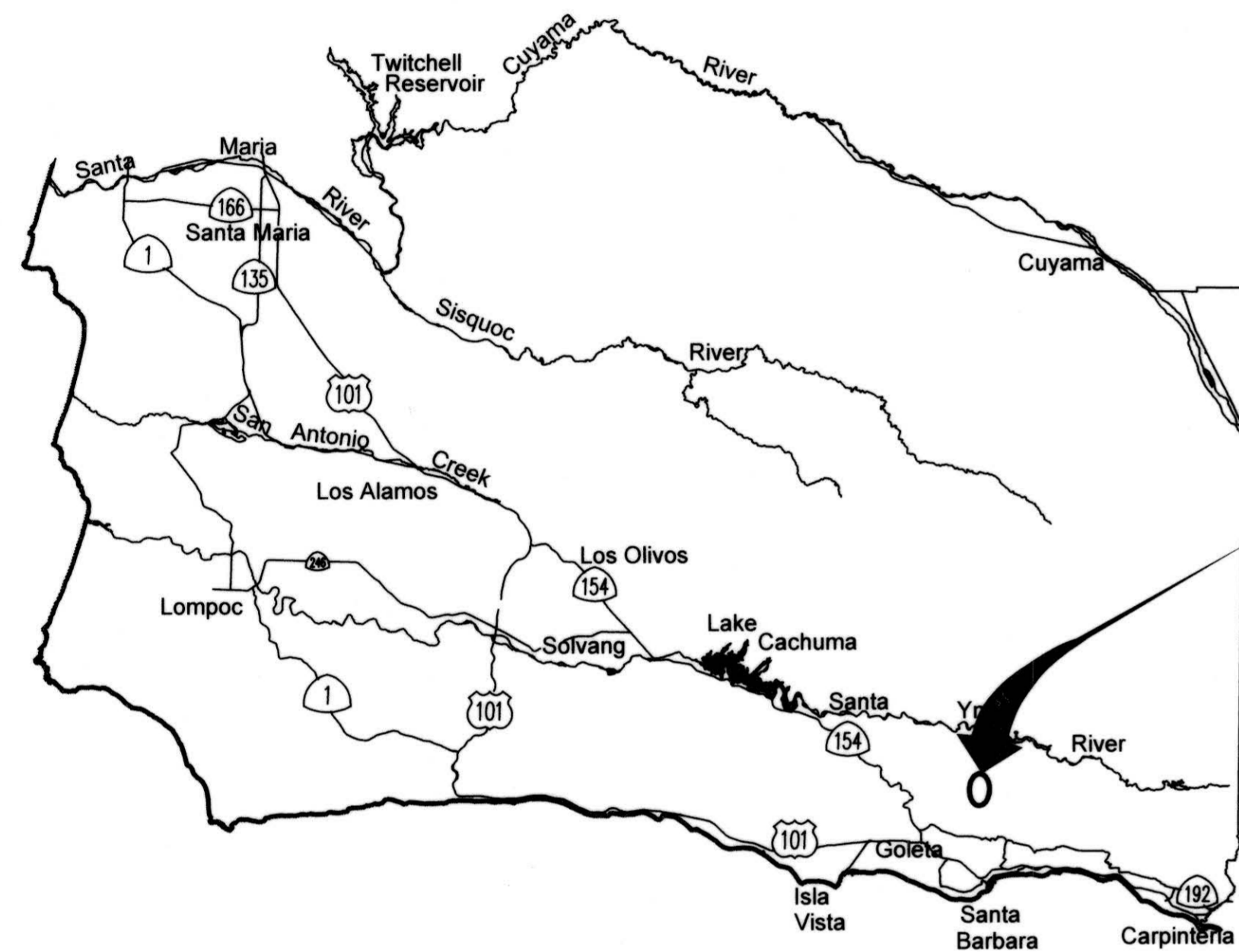
U-01.0	TRENCH BEDDING AND BACKFILL NOTES
U-01.1	TRENCH BEDDING AND BACKFILL

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT MISSION CREEK DEBRIS BASIN STORM DRAIN PROJECT

ORANGE GROVE AVENUE AT TUNNEL ROAD
IN THE MISSION CANYON AREA
OF
SANTA BARBARA COUNTY, CALIFORNIA

DISTRICT BOARD OF DIRECTORS

FIRST DISTRICT	Salud Carbajal
SECOND DISTRICT	Janet Wolf
THIRD DISTRICT	Doreen Farr
FOURTH DISTRICT	Peter Adam
FIFTH DISTRICT	Steve Lavagnino



COUNTY MAP
No Scale

County
Location

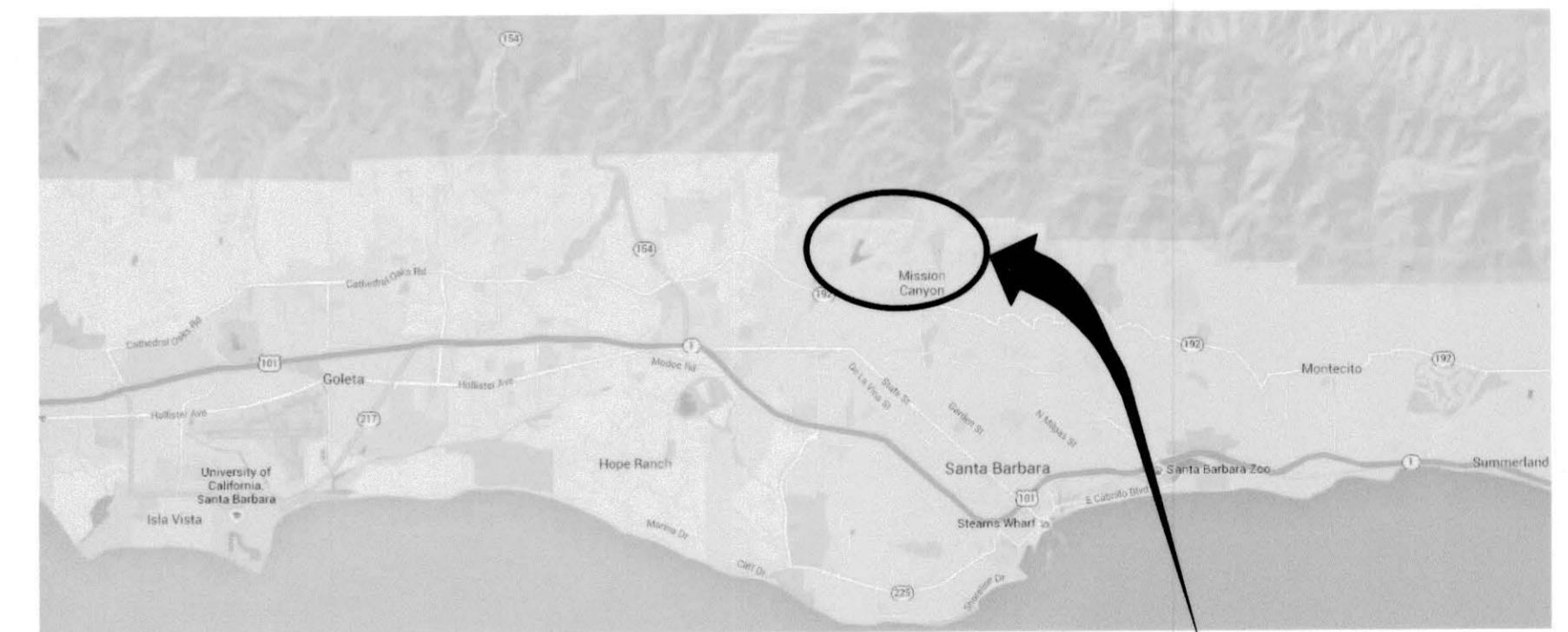


LOCATION MAP
No Scale

Project
Location

INDEX TO SHEETS

DESCRIPTION	SHEET NO.
TITLE SHEET	1
GENERAL INFORMATION	2
SURVEY CONTROL DIAGRAM	3
EXISTING UTILITY PLAN	4
DRAINAGE PLAN	5
DRAINAGE PROFILE	6
DRAINAGE DETAILS	7
DRAINAGE DETAILS	8



VICINITY MAP
No Scale

Project
Vicinity

UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS.

ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE. CONTRACTOR'S LICENSE

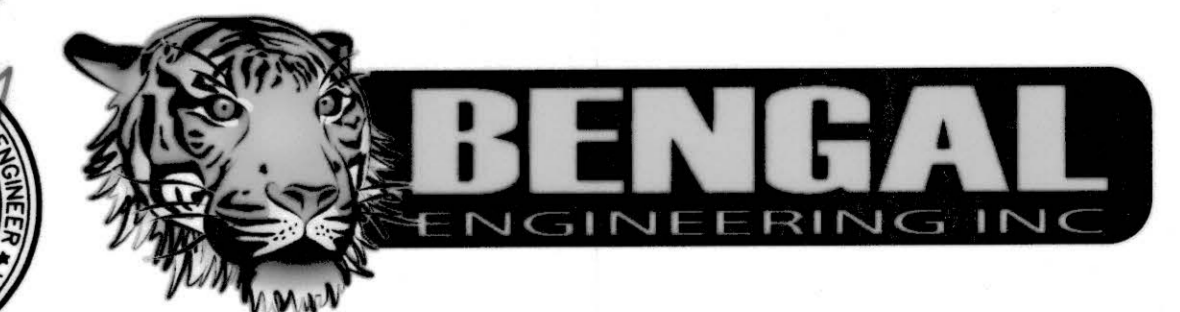
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE" ADVERTISING FOR BIDS.



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

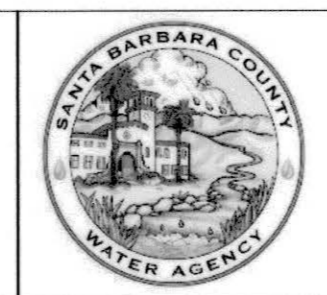


Date: August 3, 2016



REVISIONS				DESIGNED BY	DATE
NO.	DESCRIPTION	DATE	APR	<i>TC</i>	8/4/2016
				FLOOD CONTROL DESIGN ENGINEER	DATE
				REVIEWED BY	DATE
				<i>Matthew S. J...</i>	8-4-16
				FLOOD CONTROL ENGINEERING MANAGER	DATE
				REVIEWED BY	DATE
				original to be signed	
				FLOOD CONTROL DEPUTY DIRECTOR	DATE
				REVIEWED BY	DATE
				original to be signed	
				ENVIRONMENTAL SERVICES MANAGER	DATE

SANTA BARBARA COUNTY
FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
SANTA BARBARA, CA 93101
(805) 568-3440



MISSION CREEK DEBRIS
BASIN STORM DRAIN
SANTA BARBARA COUNTY, CALIFORNIA

TITLE SHEET, INDEX TO SHEETS
AND LOCATION MAPS

DESIGNED BY:	TC	O-1128
DRAWN BY:	TC	
CHECKED BY:	JSF	
		SHEET 1 OF 8

SYMBOL LEGEND			
ANGLE POINT		EX. MONUMENT	
CONTROL POINT		EX. POWER & TELEPHONE POLE	
EX. CABLE TV BOX		EX. ROCK	
EX. CABLE TV VAULT		EX. SEWER CLEANOUT	
EX. ELECTRIC BOX		EX. SEWER MANHOLE	
EX. ELECTRIC GUY WIRE		EX. SIGNAGE	
EX. ELECTRIC MANHOLE		EX. STORM DRAIN GRATE	
EX. ELECTRIC METER		EX. STORM DRAIN MANHOLE	
EX. FIRE HYDRANT		EX. STRUCTURE BENCH	
EX. GAS METER		EX. STRUCTURE BOLLARD/POST	
EX. GAS VALVE		EX. TELEPHONE BOX	
EX. IRRIGATION SPRINKLER		EX. TELEPHONE MANHOLE	
EX. LUMINARY		EX. TELEPHONE POLE	
EX. MAILBOX		EX. TELEPHONE VAULT	
		EX. BUSH/HEDGE	

LINETYPE LEGEND			
BOUNDARY EASEMENT LINE		EX. FLOWLINE	
BOUNDARY RIGHT OF WAY LINE		EX. GAS	
BOUNDARY PROPERTY LINE		EX. GUARDRAIL	
CENTERLINE		EX. SEWER	
CONTOUR LINE-MAJOR		EX. SIDEWALK	
CONTOUR LINE-MINOR		EX. STORM DRAIN	
EX. AC EDGE OF PAVEMENT		EX. STRUCTURE CONCRETE	
EX. BARBED WIRE FENCE		EX. STRUCTURE WALL	
EX. BRUSH		EX. TELEPHONE	
EX. BUILDING		EX. WATER	
EX. CABLE TV		EX. CHAIN LINK FENCE	
EX. CHAINLINK FENCE		PROPOSED FACILITIES	
EX. DRAINAGE		PROPOSED STORM DRAIN	
EX. ELECTRIC		RETAINING WALL GUTTER	
EX. ELECTRIC OVERHEAD		TEMP. CONSTRUCTION FENCE	
EX. FACILITIES			

EXISTING UTILITY INFORMATION

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. NOTE THAT INDIVIDUAL SERVICE LATERALS/CONNECTIONS AND OVERHEAD UTILITIES ARE NOT PLOTTED ON THE PROFILE.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

CONSTRUCTION NOTES

- ALL MATERIALS, CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION ON (STANDARD SPECIFICATIONS) 2010, AMERICAN PUBLIC WORKS ASSOCIATION AND COUNTY OF SANTA BARBARA STANDARDS.
- PRIOR TO BEGINNING ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY OF TUNNEL ROAD A ROAD ENCROACHMENT PERMIT MUST BE OBTAINED FROM THE S.B. CO. PUBLIC WORKS DEPARTMENT BY THE CONTRACTOR.

STORM DRAIN CONSTRUCTION

- STORM DRAIN PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP) WITH RUBBER GASKET JOINTS.
- PORTLAND CEMENT CONCRETE (P.C. CONC.) FOR DROP INLETS, MAINTENANCE HOLES, HEADWALLS AND MISCELLANEOUS CONCRETE SHALL BE CLASS A AND CONFORM TO THE PROVISIONS OF SECTION 51 OF THE STANDARD SPECIFICATIONS.
- REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO THE PROVISIONS OF SECTION 52 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADEQUATE BRACING AND SHORING FOR EXCAVATIONS, TEMPORARY STRUCTURES, AND ALL PARTIALLY COMPLETED PORTIONS OF THE WORK, AS NECESSARY. SHEETING, SHORING, BRACING, OR EQUIVALENT PROTECTION FOR ALL EXCAVATIONS OVER 5 FEET DEEP SHALL BE PROVIDED AS REQUIRED BY CALOSHA.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY POTENTIAL CONFLICTS WITH OTHER PROPOSED UNDERGROUND UTILITIES AND/OR IMPROVEMENTS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF CONFLICTS ARE NOTED TO DETERMINE THE NECESSARY FIELD CHANGE.
- CMP ANCHOR ASSEMBLIES MUST CONFORM TO THE PROVISIONS OF SECTION 69 OF THE STANDARD SPECIFICATIONS.
- CORRUGATED METAL PIPE (CMP) SHALL BE GALVANIZED CORRUGATED STEEL (0.109"). PIPE AND CONFORM TO THE PROVISIONS OF SECTION 66-1 OF THE STANDARD SPECIFICATIONS. CMP MUST BE POLYMERIC SHEET COATED IN ACCORDANCE WITH SECTION 66 OF THE STANDARD SPECIFICATIONS. ALL JOINTS SHALL BE WELDED. AFTER WELDING PAINT JOINTS WITH ZINC RICH PRIMER IN ACCORDANCE WITH SECTION 59-2 OF THE STANDARD SPECIFICATIONS AND PAINT TO MATCH THE POLYMERIC COATING.
- CMP DOWNDRAIN ANCHORAGE ASSEMBLY - ALTERNATE B WITH CABLE ANCHOR. ATTACH CABLE TO EACH CLAMP PER CALTRANS STD. PLAN S87A.
- CMP JOINTS MUST BE WELDED. INSTALL CMP DOWNDRAIN ANCHOR ASSEMBLY CA STD D87A AT ALL CHANGES IN HORIZONTAL AND VERTICAL ALIGNMENT. MANTA RAY MR-2 ANCHORS MUST BE USED IN PLACE OF PIPE STAKES.
- PAVEMENT SECTION FOR STORM DRAIN TRENCH REPAIR SHALL MATCH EXISTING PAVEMENT SECTION OF TUNNEL ROAD OR BE 0.67" ASPHALT CONCRETE PAVEMENT WHICHEVER IS GREATER.
- CERTIFICATES OF COMPLIANCE FOR ALL MATERIAL SHALL BE SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 6-1 OF THE STANDARD SPECIFICATIONS. ALL MATERIAL CERTIFICATES MUST BE AUTHORIZED PRIOR TO USE.

STANDARD DETAILS AND PLANS LIST

THE STANDARD PLAN SHEETS APPLICABLE TO THIS CONTRACT INCLUDE THOSE INDICATED BELOW.

STANDARD NO.	DESCRIPTION
SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS	
3-010	GENERAL DRAINAGE FACILITIES NOTES
3-050	TYPE C DROP INLET
3-080	STORM DRAIN MANHOLE
STATE DEPARTMENT OF TRANSPORTATION STANDARD PLANS (2010)	
A10A-A10B	ABBREVIATIONS
A10C-A10E	SYMBOLS
D87A	CORRUGATED METAL PIPE DOWNDRAIN DETAILS
D87C	CABLE ANCHORAGE SYSTEM
D94A	METAL AND PLASTIC FLARED END SECTIONS
T13	TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

AMERICAN PUBLIC WORKS ASSOCIATION STANDARD PLANS (SPPWC)

300-3	CURB OPENING CATCH BASIN
308-2	MONOLITHIC CATCH BASIN CONNECTION
309-2	CATCH BASIN REINFORCEMENT
312-3	CATCH BASIN MANHOLE FRAME AND COVER
321-2	MANHOLE - PIPE TO PIPE (ONE OF BOTH LINE ID'S 33" OR SMALLER)
324-2	MANHOLE SHAFT - WITH ECCENTRIC REDUCER
331-3	JUNCTION STRUCTURE - PIPE TO PIPE
380-4	CONCRETE COLLAR FOR RCP (12" - 72")
630-3	24" MANHOLE FRAME AND COVER
636-2	POLYPROPYLENE - PLASTIC STEP

ABBREVIATIONS

ACP	ASBESTOS CEMENT PIPE
APN	ASSESSORS PARCEL NUMBER
APWA	AMERICAN PUBLIC WORKS ASSOC.
AT	ARCHITECTURAL TEXTURE
BLDG	BUILDING
BOT	BOTTOM
BW	BOTH WAYS
CFS	CUBIC FEET PER SECOND
CL or C/L	CENTER LINE
CALTRANS	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION COUNTY OF SANTA BARBARA
COUNTY	CORRUGATED METAL/STEEL PIPE
CMP	CONTROL POINT
CP	DUCTILE IRON OR DROP INLET
DI	DRIVEWAY
DW	EAST OR EASTING
E	EXISTING GROUND
EG	ENERGY GRADE LINE
EGL	ELEVATION
EL	EDGE OF PAVEMENT
EP	ELECTRIC
ELEC	EXISTING
EX, (E)	FOUND
FD	FEET
FT	GRAVITATIONAL CONSTANT
g	GAS LINE
G	GRADE BREAK
GB	HIGH DENSITY POLYETHYLENE
HDPE	HYDRAULIC GRADE LINE
HGL	IRON PIPE
IP	INCH
IN	JUNCTION STRUCTURE
JS	LAYOUT LINE
LOL	MECHANICAL JOINT
MJ	MANNING'S COEFFICIENT
n	NORTH OR NORTHING
N	NUMBER
NO	NOT TO SCALE
NTS	ON CENTER
OC	PK NAIL
PK	FLOW VELOCITY
Q	RECORD PER BOOK NN, PAGE NN OF MAPS
R1	REINFORCED CONCRETE PIPE SEWER OR SLOPE OR SOUTH STORM DRAIN MANHOLE
RCP	SHINER
S	SPIKE
SDMH	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
SH	SIDEWALK
SPK	TOP OF WALL
SPPWC	TEMPORARY CONSTRUCTION EASEMENT
S/W	TEMPORARY BENCH MARK
TW or tw	TOP OF SIDEWALK
TCE	TOP OF PAVEMENT
TBM	WEST
TSW	WATER LINE
TP	WALL FACE
TP	WELDED WIRE FABRIC
W	VELOCITY
W or WL	VALVE BOX
WF	
WWF	
V	
VB	

PROPOSED IMPROVEMENTS WITHIN THE COUNTY ROAD RIGHT OF WAY, EXCEPT FOR THE CMP, WILL BE OWNED AND MAINTAINED BY THE SANTA BARBARA COUNTY PUBLIC WORKS DEPARTMENT TRANSPORTATION DIVISION. ALL IMPROVEMENTS DOWNSTREAM OF MANHOLE NO. 3 WILL BE OWNED AND MAINTAINED BY SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT.



Date: August 3, 2016

REVISIONS			
NO.	DESCRIPTION	DATE	APR

SANTA BARBARA COUNTY
FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
SANTA BARBARA, CA 93101
(805) 568-3440



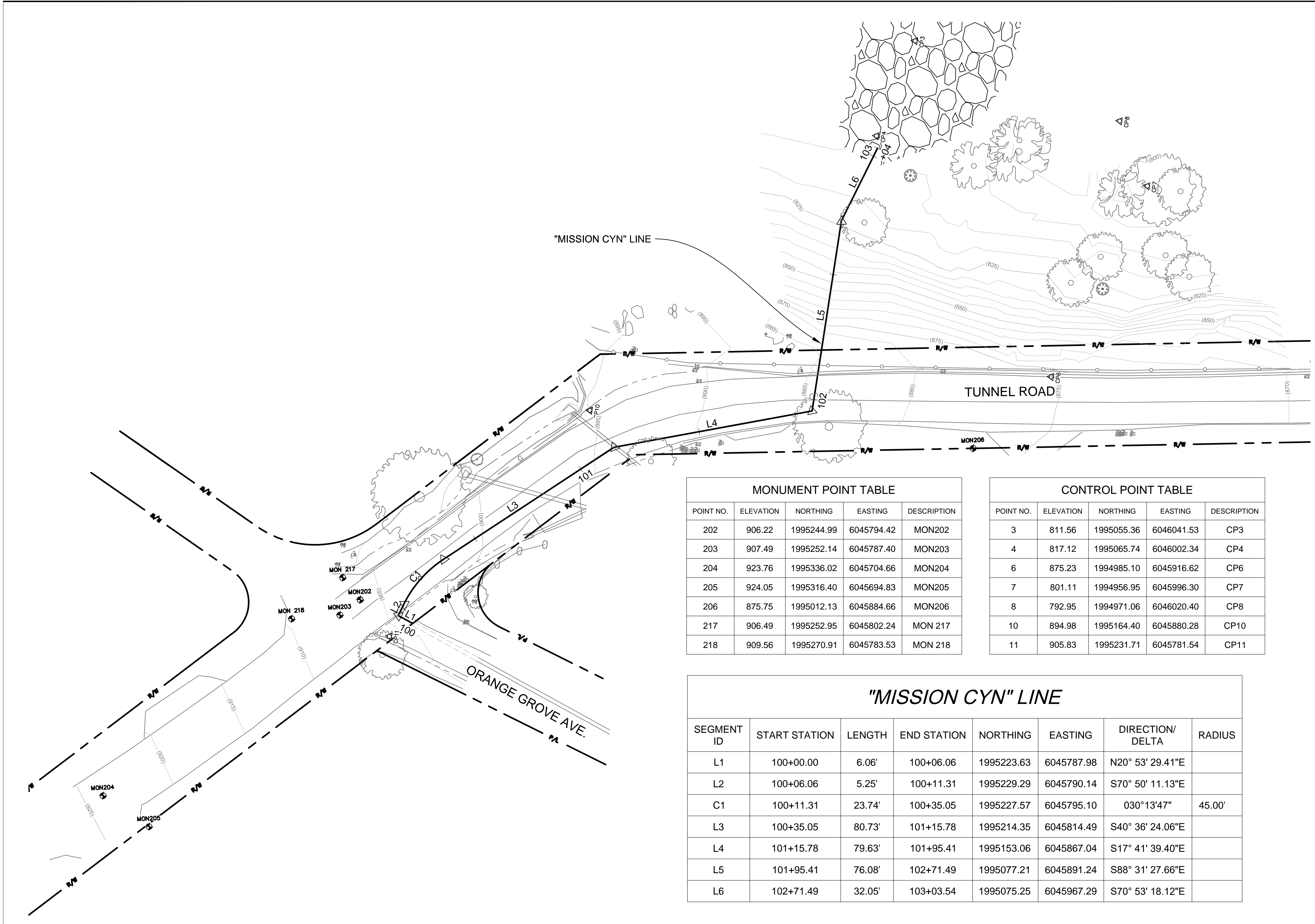
BENGAL ENGINEERING
GOLETA, CA 93117

MISSION CREEK DEBRIS
BASIN STORM DRAIN

SANTA BARBARA COUNTY, CALIFORNIA

LEGENDS, UTILITY INFORMATION,
NOTES AND ABBREVIATIONS

DESIGNED BY:	TC
DRAWN BY:	TC
CHECKED BY:	MD
0-1128	
SHEET 2 OF 8	



MONUMENT POINT TABLE				
POINT NO.	ELEVATION	NORTHING	EASTING	DESCRIPTION
202	906.22	1995244.99	6045794.42	MON202
203	907.49	1995252.14	6045787.40	MON203
204	923.76	1995336.02	6045704.66	MON204
205	924.05	1995316.40	6045694.83	MON205
206	875.75	1995012.13	6045884.66	MON206
217	906.49	1995252.95	6045802.24	MON 217
218	909.56	1995270.91	6045783.53	MON 218

CONTROL POINT TABLE				
POINT NO.	ELEVATION	NORTHING	EASTING	DESCRIPTION
3	811.56	1995055.36	6046041.53	CP3
4	817.12	1995065.74	6046002.34	CP4
6	875.23	1994985.10	6045916.62	CP6
7	801.11	1994956.95	6045996.30	CP7
8	792.95	1994971.06	6046020.40	CP8
10	894.98	1995164.40	6045880.28	CP10
11	905.83	1995231.71	6045781.54	CP11

"MISSION CYN" LINE							
SEGMENT ID	START STATION	LENGTH	END STATION	NORTHING	EASTING	DIRECTION/ DELTA	RADIUS
L1	100+00.00	6.06'	100+06.06	1995223.63	6045787.98	N20° 53' 29.41"E	
L2	100+06.06	5.25'	100+11.31	1995229.29	6045790.14	S70° 50' 11.13"E	
C1	100+11.31	23.74'	100+35.05	1995227.57	6045795.10	030° 13' 47"	45.00'
L3	100+35.05	80.73'	101+15.78	1995214.35	6045814.49	S40° 36' 24.06"E	
L4	101+15.78	79.63'	101+95.41	1995153.06	6045867.04	S17° 41' 39.40"E	
L5	101+95.41	76.08'	102+71.49	1995077.21	6045891.24	S88° 31' 27.66"E	
L6	102+71.49	32.05'	103+03.54	1995075.25	6045967.29	S70° 53' 18.12"E	

SURVEYOR'S NOTES:
 HORIZONTAL POSITIONS FOR CONTROL POINTS CP5-CP11 WERE DERIVED FROM CONVENTIONAL OBSERVATIONS HOLDING CP1-CP4 PER COUNTY SURVEYOR OFFICE FIELD FILES FROM SURVEY PROJECT S555 MISSION CANYON DEBRIS BASIN. CALIFORNIA COORDINATE SYSTEM 1983 ZONE 5 (CCS83) 1991.35 EPOCH. MON200-MON215, WERE DERIVED FROM GPS-RTK OBSERVATION HOLDING BASE STATIONED AT CP6. MON216 WAS DERIVED FROM CONVENTIONAL OBSERVATIONS FROM CP9.

ELEVATIONS (ORTHOMETRIC HEIGHTS) FOR CONTROL POINTS CP5-CP11 WERE DERIVED FROM CONVENTIONAL OBSERVATIONS CONVERTED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) USING THE NATIONAL GEODETIC SURVEY'S PROGRAM GEOID99 HOLDING CP1-CP4 PER COUNTY SURVEYOR OFFICE FIELD FILES FROM SURVEY PROJECT S555 MISSION CANYON DEBRIS BASIN.

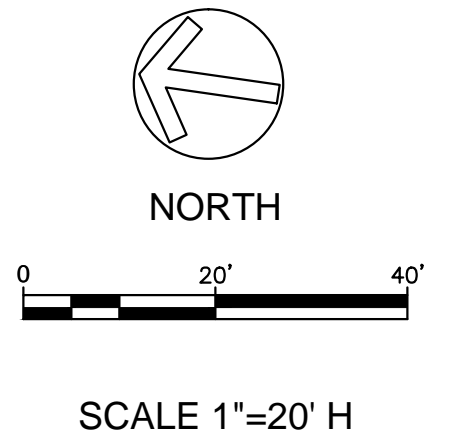
RESULTING TOPOGRAPHIC SURVEY MEASURED WITH TRIMBLE S6 CONVENTIONAL ROBOTIC TOTAL STATION. DIRECT REFLECT USED FOR SHOTS OF THE VERTICAL CLIFF FACE.

ALL COORDINATE VALUES SHOWN ARE GRID VALUES. ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT (ONE SURVEY FOOT = 1200/3937 METERS).

BASIS OF BEARINGS:
 THE LOCAL BASIS OF BEARINGS IS BETWEEN CP1 AND CP2.
 RECORD: S04°44'16"E, 90.73'
 MEASURED: S04°44'00"E, 90.75'

GROUND TO GRID FACTORS
 CONVERGENCE FACTOR: -00°58'29.84459"
 SCALE FACTOR: 0.999934748
 COMBINED FACTOR: 0.999900163
 FACTORS CALCULATED FOR: CP1

BOUNDARY NOTE:
 RIGHT-OF-WAY BOUNDARY CALCULATED PER RS 178/62, RS 65/06, CS 1153, CORNER RECORD 3148;
 FIT TO MON203, MON206, MON215, & MON216;
 FOR GRAPHICAL PURPOSES ONLY



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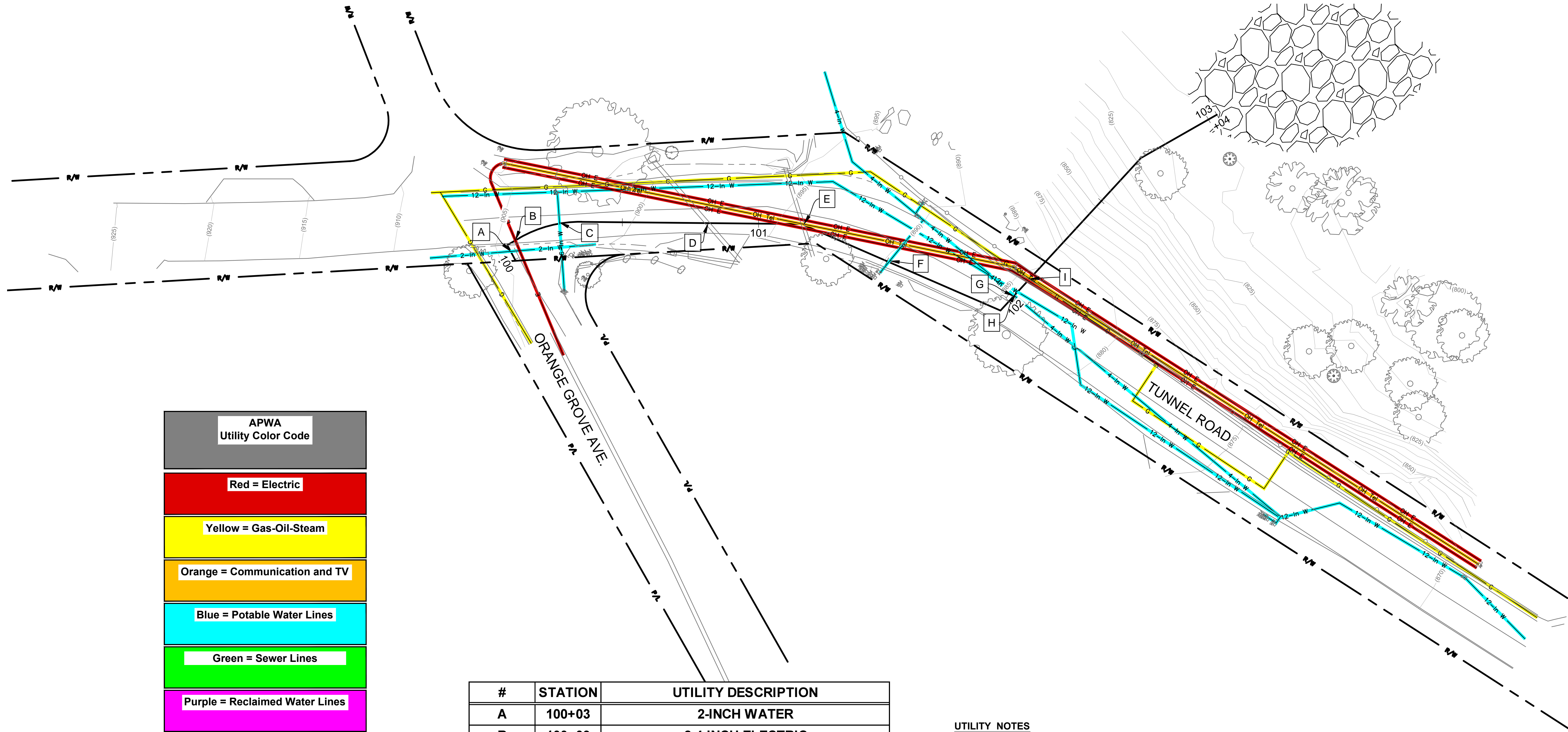
BENGAL ENGINEERING
 GOLETA, CA 93117

MISSION CREEK DEBRIS
 BASIN STORM DRAIN
 SANTA BARBARA COUNTY, CALIFORNIA

SURVEY CONTROL DIAGRAM

DESIGNED BY:
 TC
 DRAWN BY:
 TC
 CHECKED BY:
 MD

0-1128
 SHEET 3 OF 8



APWA Utility Color Code

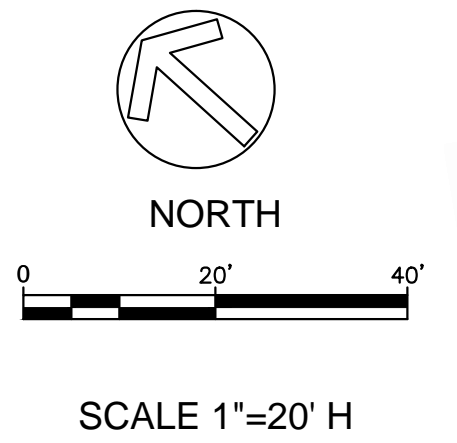
- Red = Electric
- Yellow = Gas-Oil-Steam
- Orange = Communication and TV
- Blue = Potable Water Lines
- Green = Sewer Lines
- Purple = Reclaimed Water Lines

LEGEND

- OH-E Overhead Electric
- E Underground Electric
- G Gas
- OH Tel Overhead Communication
- W Water

#	STATION	UTILITY DESCRIPTION
A	100+03	2-INCH WATER
B	100+09	2 4-INCH ELECTRIC
C	100+26	6-INCH WATER
D	100+81	18-INCH CMP STORM DRAIN
E	101+16	18-INCH CMP STORM DRAIN
F	101+51	2-INCH WATER
G	102+02	4-INCH WATER INSIDE 10-INCH CASING
H	102+04	12-INCH WATER
I	102+11	3-INCH GAS

- UTILITY NOTES**
- THIS PLAN SHEET SHOWS THE APPROXIMATE UTILITIES BELIEVED TO EXIST WITHIN THE PROJECT SITE. UNDERGROUND UTILITY LOCATIONS ARE SHOWN BASED ON INFORMATION PROVIDED BY OTHERS. IT IS THE CONTRACTORS RESPONSIBILITY TO POTHOLE AS NECESSARY TO VERIFY HORIZONTAL AND VERTICAL LOCATION.
 - THE CONTRACTOR MUST PROTECT IN PLACE ALL UNDERGROUND AND OVERHEAD UTILITIES. OVERHEAD UTILITIES ARE TO REMAIN IN PLACE. THE CONTRACTOR IS TO PROTECT OVERHEAD WIRES AND UTILITY POLES WITHIN THE LIMITS OF THE PROJECT.
 - THE WATER LINE SHOWN AS 4 INCH IS INSIDE A 10 INCH STEEL CASING. CONTRACTOR TO VERIFY.



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BASIN STORM DRAIN

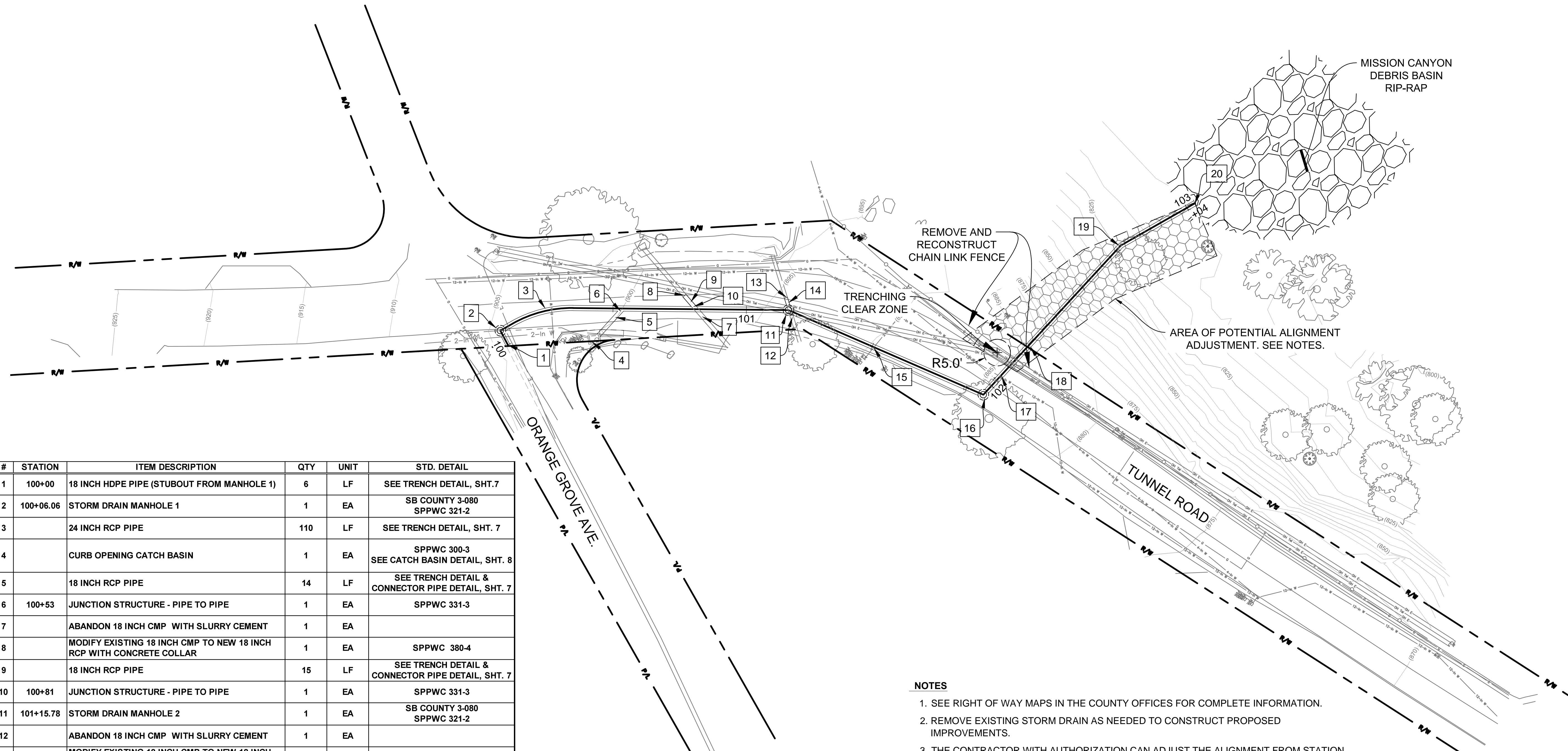
SANTA BARBARA COUNTY, CALIFORNIA

EXISTING UTILITY PLAN

DESIGNED BY:	TC
DRAWN BY:	TC
CHECKED BY:	MD

O-1128

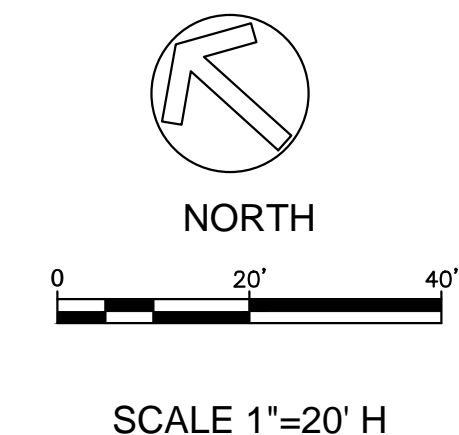
SHEET 4 OF 8



#	STATION	ITEM DESCRIPTION	QTY	UNIT	STD. DETAIL
1	100+00	18 INCH HDPE PIPE (STUBOUT FROM MANHOLE 1)	6	LF	SEE TRENCH DETAIL, SHT.7
2	100+06.06	STORM DRAIN MANHOLE 1	1	EA	SB COUNTY 3-080 SPPWC 321-2
3		24 INCH RCP PIPE	110	LF	SEE TRENCH DETAIL, SHT. 7
4		CURB OPENING CATCH BASIN	1	EA	SPPWC 300-3 SEE CATCH BASIN DETAIL, SHT. 8
5		18 INCH RCP PIPE	14	LF	SEE TRENCH DETAIL & CONNECTOR PIPE DETAIL, SHT. 7
6	100+53	JUNCTION STRUCTURE - PIPE TO PIPE	1	EA	SPPWC 331-3
7		ABANDON 18 INCH CMP WITH SLURRY CEMENT	1	EA	
8		MODIFY EXISTING 18 INCH CMP TO NEW 18 INCH RCP WITH CONCRETE COLLAR	1	EA	SPPWC 380-4
9		18 INCH RCP PIPE	15	LF	SEE TRENCH DETAIL & CONNECTOR PIPE DETAIL, SHT. 7
10	100+81	JUNCTION STRUCTURE - PIPE TO PIPE	1	EA	SPPWC 331-3
11	101+15.78	STORM DRAIN MANHOLE 2	1	EA	SB COUNTY 3-080 SPPWC 321-2
12		ABANDON 18 INCH CMP WITH SLURRY CEMENT	1	EA	
13		MODIFY EXISTING 18 INCH CMP TO NEW 18 INCH RCP WITH CONCRETE COLLAR	1	EA	SPPWC 380-4
14		18 INCH RCP PIPE	11	LF	SEE TRENCH DETAIL & CONNECTOR PIPE DETAIL, SHT. 7
15		24 INCH RCP PIPE	80	LF	SEE TRENCH DETAIL, SHT.7
16	101+95.41	STORM DRAIN MANHOLE 3	1	EA	SB COUNTY 3-080 SPPWC 321-2
17		18 INCH CORRUGATED STEEL PIPE (.109" THICK)	132	LF	SEE TRENCH DETAIL SHT.7 STA. 101+98 TO 103+00
18	102+12+/-	CABLE ANCHORAGE SYSTEM	1	EA	CALTRANS D87C
19	102+68+/-	CABLE ANCHORAGE SYSTEM	1	EA	CALTRANS D87C
20	103+24	18 INCH CMP FLARED END	1	EA	CALTRANS D94A II

NOTES

1. SEE RIGHT OF WAY MAPS IN THE COUNTY OFFICES FOR COMPLETE INFORMATION.
2. REMOVE EXISTING STORM DRAIN AS NEEDED TO CONSTRUCT PROPOSED IMPROVEMENTS.
3. THE CONTRACTOR WITH AUTHORIZATION CAN ADJUST THE ALIGNMENT FROM STATION 102+00 TO END. ENGINEER APPROVAL IS REQUIRED. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.
4. A TOPOGRAPHIC SURVEY WAS COMPLETED IN FALL OF 2015 AND SPRING OF 2016. THE HILLSIDE GRADES MAY HAVE CHANGED.
5. SEE PROJECT KEYLINE GEOMETRY AND PROFILE PLAN SHEETS FOR MORE INFORMATION.
6. TRENCHING CLEAR ZONE INDICATES AREAS THAT CONFLICT WITH THE INTEGRITY OF THE UTILITY POLE. STORM DRAIN MUST NOT CONFLICT WITH UTILITY POLE LOCATION.
7. THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



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BENGAL ENGINEERING
GOLETA, CA 93117

MISSION CREEK DEBRIS
BASIN STORM DRAIN

SANTA BARBARA COUNTY, CALIFORNIA

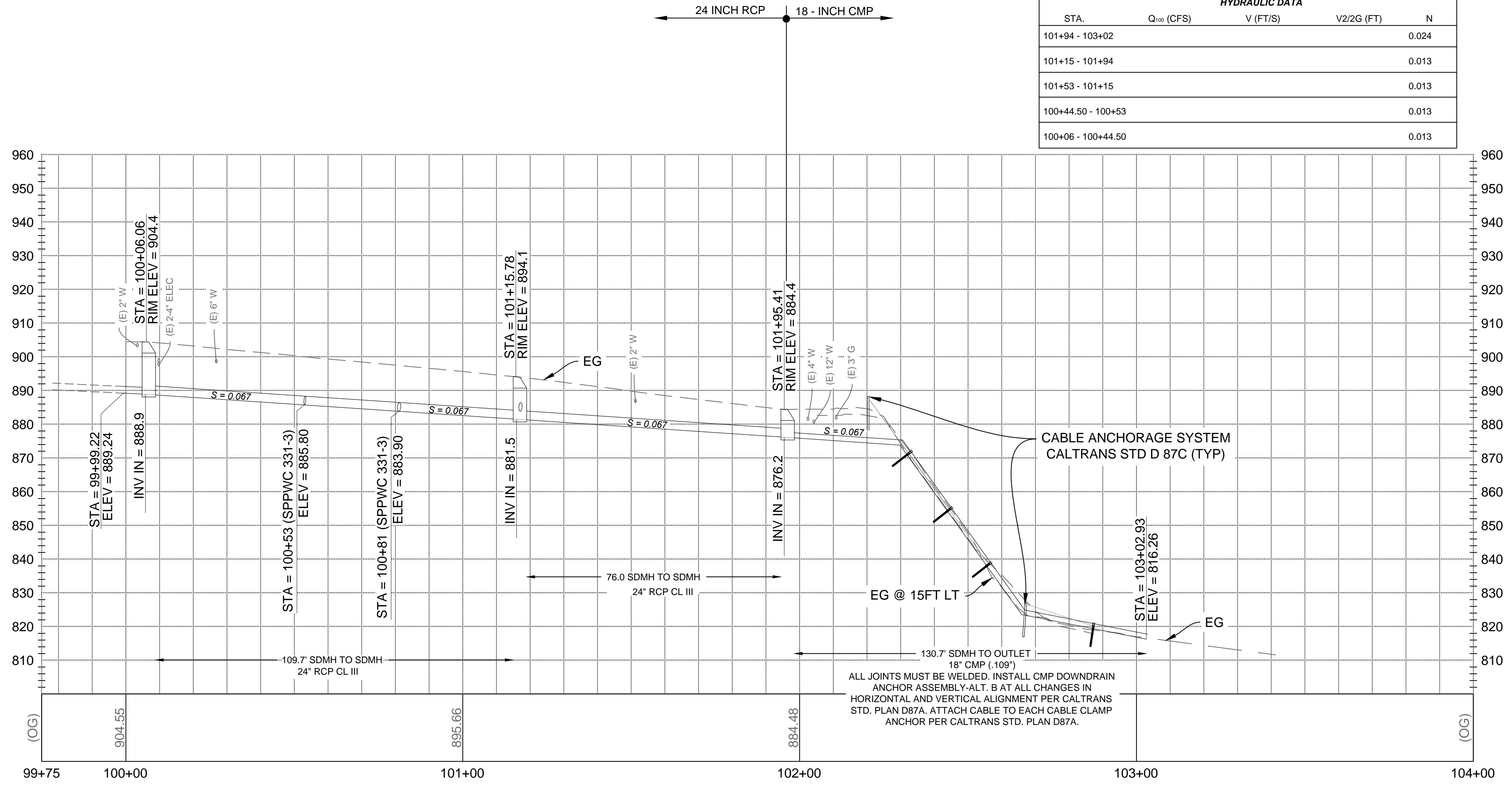
DRAINAGE PLAN

DESIGNED BY:	TC
DRAWN BY:	TC
CHECKED BY:	MD

0-1128

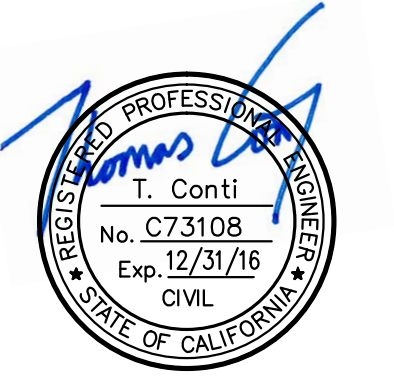
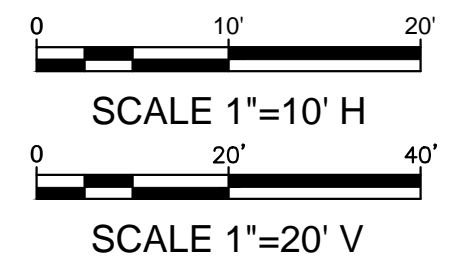
SHEET 5 OF 8

HYDRAULIC DATA				
STA.	Q _{max} (CFS)	V (FT/S)	V2/2G (FT)	N
101+94 - 103+02				0.024
101+15 - 101+94				0.013
101+53 - 101+15				0.013
100+44.50 - 100+53				0.013
100+06 - 100+44.50				0.013



NOTES

- SEE RIGHT OF WAY MAPS IN THE COUNTY OFFICES FOR COMPLETE INFORMATION.
- INDIVIDUAL WATER SERVICE LATERALS/CONNECTIONS ARE APPROXIMATE, CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION.
- OVERHEAD UTILITIES ARE NOT SHOWN IN PROFILE. THE CONTRACTOR IS TO PROTECT OVERHEAD WIRES AND POLES.
- A TOPOGRAPHIC SURVEY WAS COMPLETED IN FALL OF 2015 AND SPRING OF 2016. THE HILLSIDE GRADES MAY HAVE CHANGED.
- SEE PROJECT KEYLINE GEOMETRY AND LAYOUT PLAN SHEETS FOR MORE INFORMATION.
- THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
- FINAL LOCATIONS FOR CABLE ANCHORAGE SYSTEMS AND PIPE DOWNDRAIN ANCHOR ASSEMBLY WILL BE FIELD VERIFIED BY THE CONTRACTOR. SEE SPECIFICATION FOR MORE DETAILS, NOTES AND QUANTITIES.
- ON CALTRANS STD DETAILS D87A AND D87C THE CONTRACTOR IS REQUIRED TO SUBSTITUTE MANTA RAY MR-2 ANCHORS IN PLACE OF THE 1-1/2" PIPE STAKES. ANCHOR MINIMUM EMBEDMENT IS 15 FEET BELOW EXISTING GRADE.



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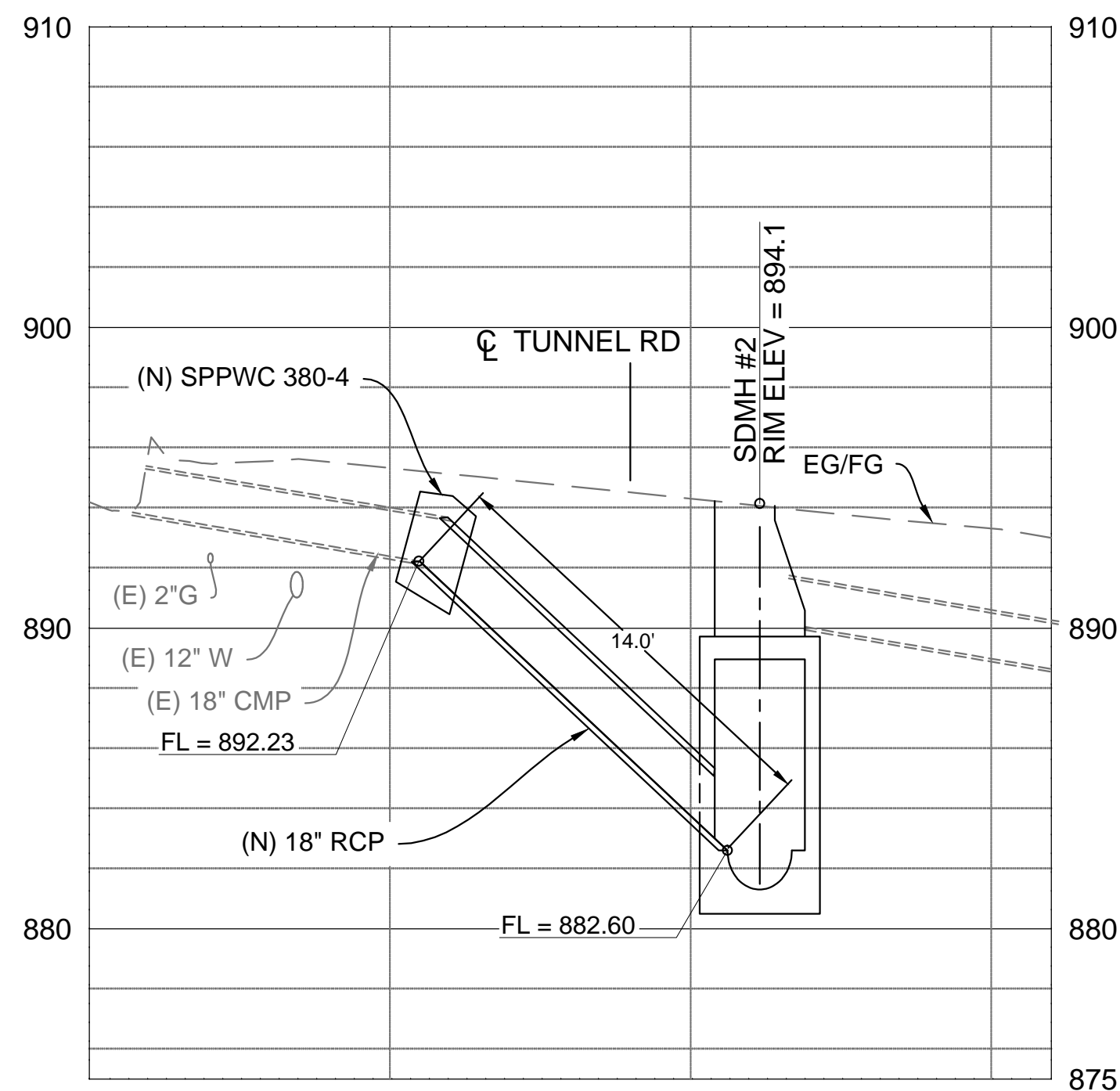
BENGAL ENGINEERING
GOLETA, CA 93117

MISSION CREEK DEBRIS
BASIN STORM DRAIN
SANTA BARBARA COUNTY, CALIFORNIA

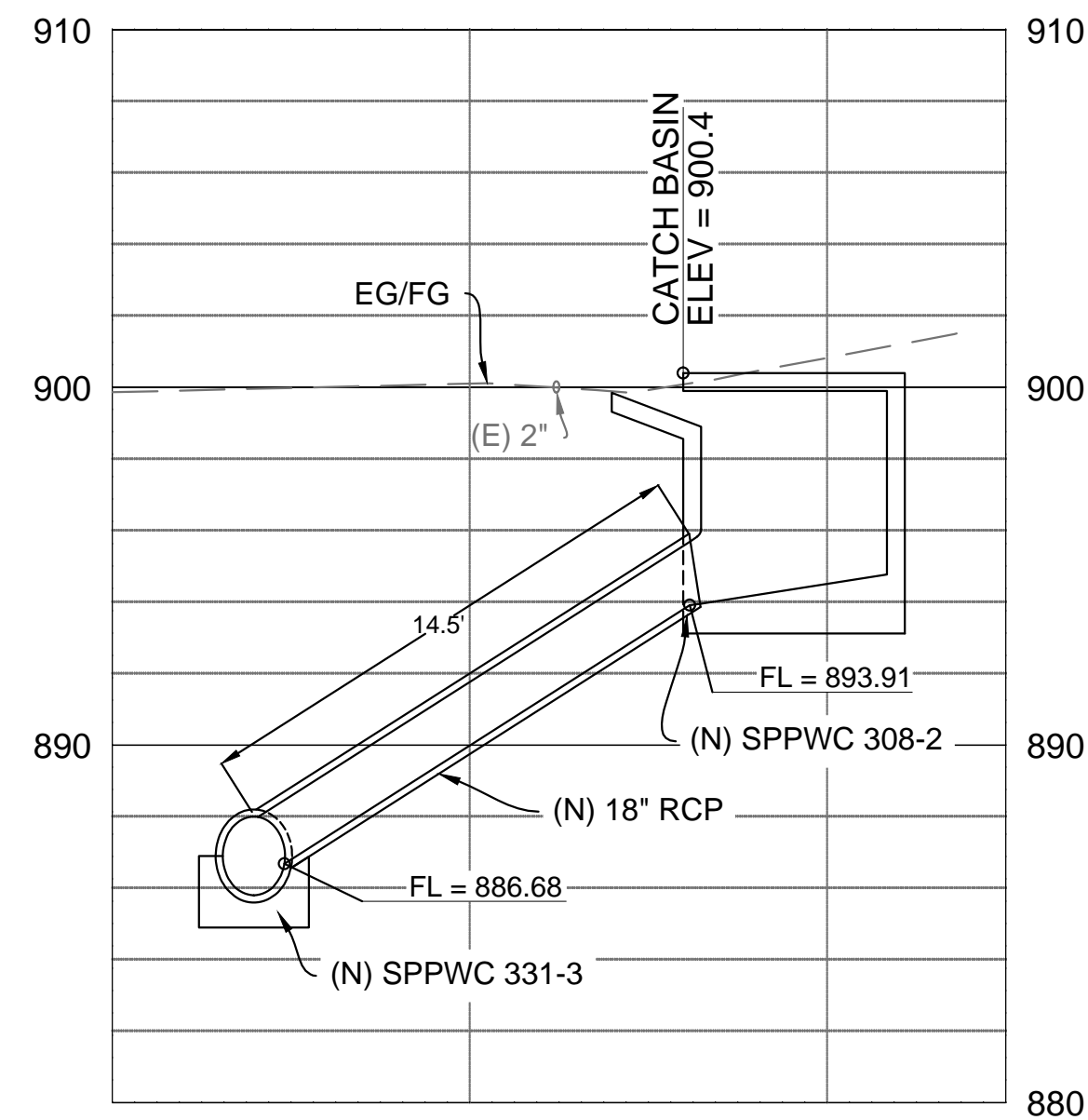
DRAINAGE PROFILE

DESIGNED BY:	TC
DRAWN BY:	TC
CHECKED BY:	MD

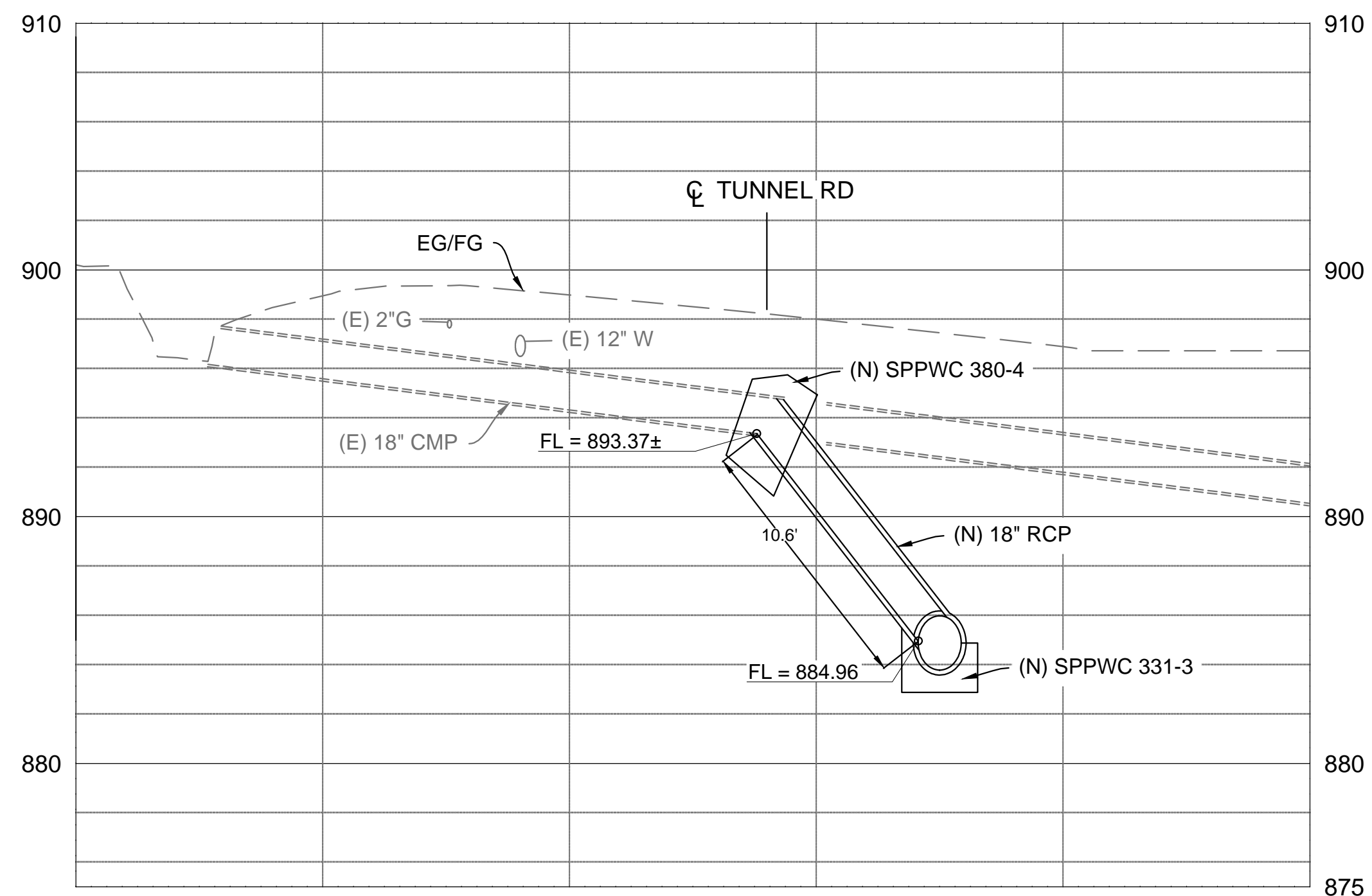
O-1128
SHEET 6 OF 8



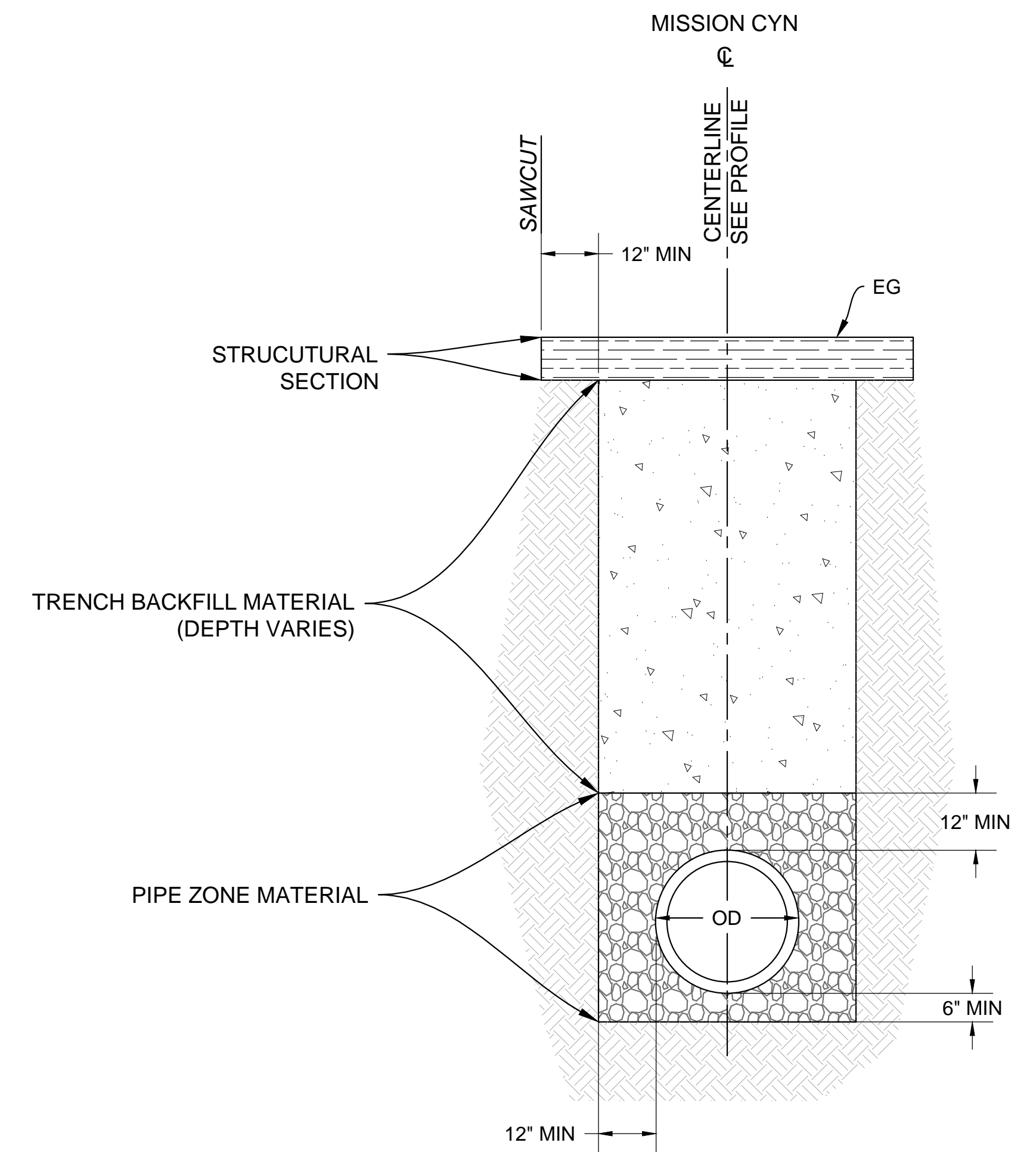
STA. 101+15.78 CONNECTOR PIPE DETAIL
SCALE: 1" = 5' HOR. & VERT



STA. 100+53 CONNECTOR PIPE DETAIL
SCALE: 1" = 5' HOR. & VERT.



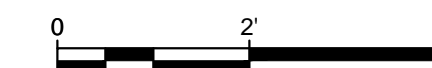
STA. 100+81 CONNECTOR PIPE DETAIL
SCALE: 1" = 5' HOR. & VERT



TYPICAL TRENCH DETAIL
SCALE: 1" = 2'

TYPICAL TRENCH DETAILS

1. TEMPORARY EXCAVATION SUPPORT REQUIRED.
2. INCREASE THE TRENCH AS NECESSARY TO ACCOMMODATE SHORING SYSTEM AND COMPACTION OPERATIONS.
3. PIPE ZONE MATERIAL MUST CONFORM TO THE REQUIREMENTS LISTED IN THE SPECIAL PROVISIONS. COMPACT TO A MINIMUM OF 95% RELATIVE COMPACTION.
4. TRENCH BACKFILL MUST BE 1 SACK CEMENT SLURRY EXCEPT IN SHOULD AREAS WHICH WILL CONFORM TO THE REQUIREMENTS LISTED IN THE SPECIAL PROVISION. COMPACT TO A MINIMUM OF 95% RELATIVE COMPACTION.
5. COMPACTION BY FLOODING, PONDING OR JETTING WILL NOT BE PERMITTED.
6. UNSUITABLE BOTTOM OF TRENCH CONDITIONS MAY REQUIRE ADDITIONAL SUBGRADE OVEREXCAVATION AS DIRECTED BY THE ENGINEER.
7. STRUCTURAL SECTION MUST MATCH WITH A MINIMUM THICKNESS OF 16" OF CLASS II AGGREGATE BASE UNDER 8" OF HMA. COMPACT TO A MINIMUM OF 95% RELATIVE COMPACTION. REMOVE EXISTING ASPHALT CONCRETE SURFACING WHERE REMAINING WIDTH OF ASPHALT CONCRETE IS 3 FT OR LESS AS AUTHORIZED BY THE ENGINEER.
8. SEE SPECIAL PROVISIONS FOR ROCK EXCAVATION DETAILS.



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BENGAL ENGINEERING
GOLETA, CA 93117

MISSION CREEK DEBRIS
BASIN STORM DRAIN

SANTA BARBARA COUNTY, CALIFORNIA

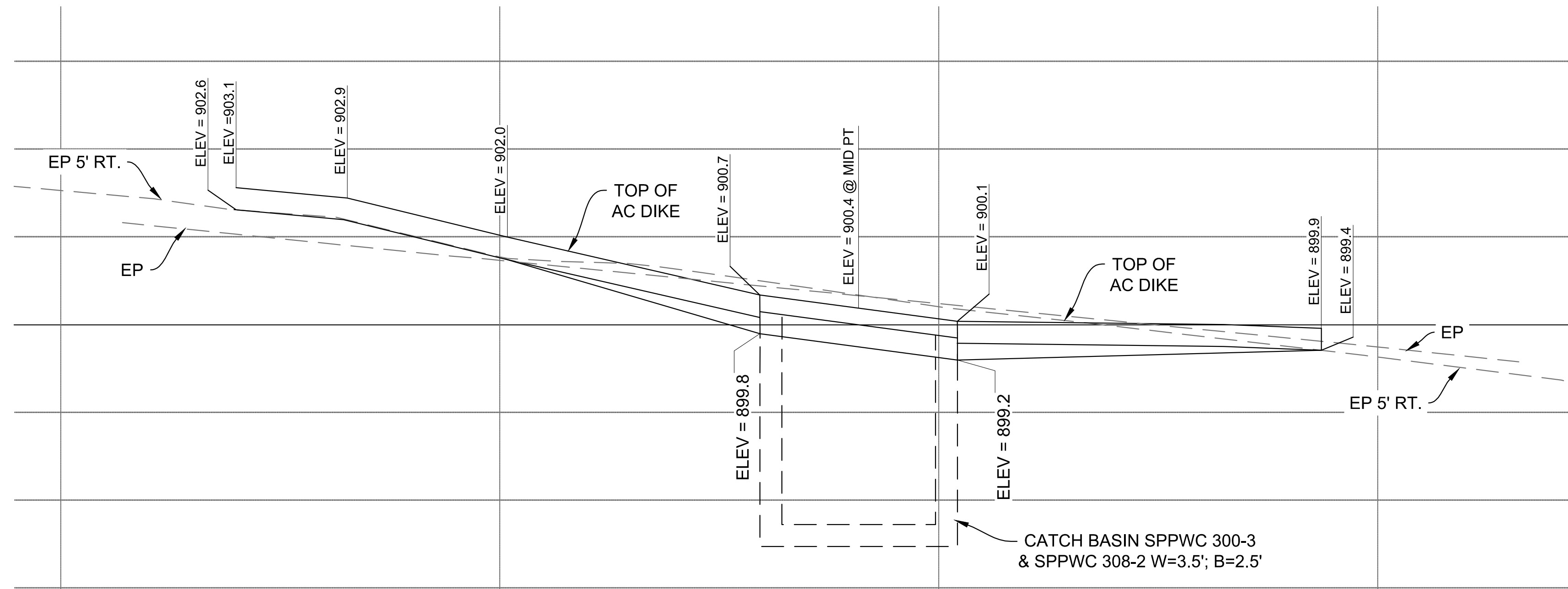
STORM DRAIN DETAILS

DESIGNED BY:	TC
DRAWN BY:	TC
CHECKED BY:	MD

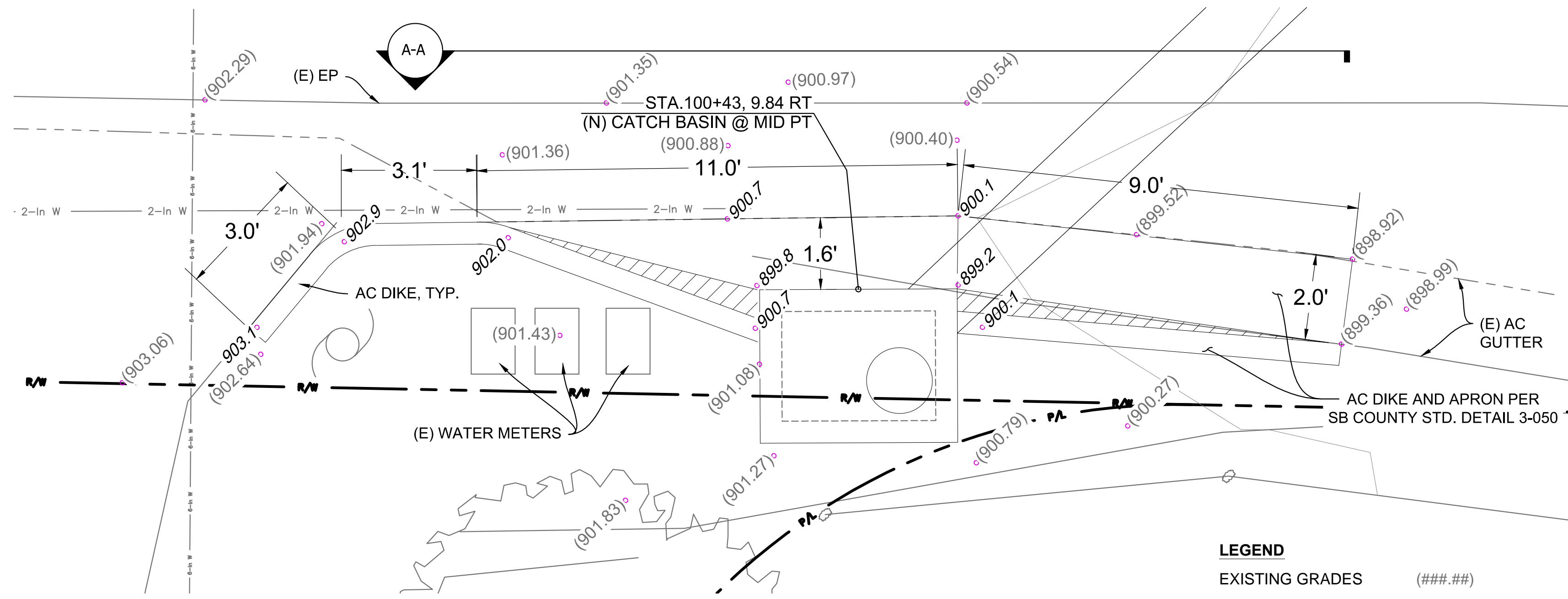
O-1128

SHEET 7 OF 8

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 8/3/2016 4:36:59 PM

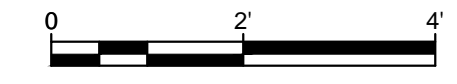


SECTION A-A
 SCALE: 1" = 2' HOR. & VERT.



CURB OPENING CATCH BASIN DETAIL
 SCALE: 1" = 2'

LEGEND
 EXISTING GRADES (###.##)
 PROPOSED GRADES ###.#



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MISSION CREEK DEBRIS
 BASIN STORM DRAIN
 SANTA BARBARA COUNTY, CALIFORNIA

STORM DRAIN DETAILS

DESIGNED BY:	TC
DRAWN BY:	TC
CHECKED BY:	MD

O-1128
 SHEET 8 OF 8