

**STANDARD  
SPECIFICATIONS  
AND  
STANDARD  
DETAILS**



Prepared by:  
Inyo County Public Works Department  
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## FOREWORD

Unless otherwise noted herein, the Inyo County Standard Specifications shall be the most recent edition of Caltrans Standard Specifications (Caltrans Standard Specification) along with the most recent Caltrans' Revised Standard Specifications as updated by Caltrans.

When work in County right-of-way is prepared by other than County, or County is not the contracting agency, obtain Encroachment Permit for the work. For work performed under Encroachment Permit where County is not financially liable for any portion of work, Section 2, 3, 4 and 9 do not apply.

Obtain the latest Caltrans Standard Specifications and Revised Standard Specifications from:

[http://dot.ca.gov/hq/esc/oe/construction\\_standards.html](http://dot.ca.gov/hq/esc/oe/construction_standards.html)

For work contemplated beyond the provision of these County Standard Specification and Caltrans Standard Specifications, refer to the latest edition of the "Greenbook" Standard Specifications for Public Works Construction.

# **STANDARD SPECIFICATIONS**

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# 1 GENERAL

Comply with Section 1 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

## Replace or Add to

### 1-1.07 DEFINITIONS:

**contractor:** Person or business or its legal representative entering into a Contract with the Department for performance of the work, or performing work under an Encroachment Permit.

**Department:** Department of Transportation as defined in St & Hwy Code § 20 and authorized in St & Hwy Code § 90; Inyo County; or respective authorized representatives

**Director:** Inyo County Director of Public Works

**Engineer:** Inyo County Director of Public Works or Road Commissioner acting directly or through properly authorized agents acting within the scope of their particular duties.

**holiday:** Holiday shown in the following table:

Holidays
Sunday
New Year's Day
Lincoln's Birthday (Observed)
President's Day
Memorial Day
Independence Day
Labor Day
Veterans
Thanksgiving Day
Day after Thanksgiving Day
Christmas Day

**mobilization:** Preparatory work that must be performed, including obtaining all PLACs, and costs incurred before starting work on the various items on the job site (Pub Cont Code § 10104).

**permittee:** The agency or individual securing an encroachment permit to do work on or improve a portion of County right-of-way.

**PLAC:** permit, license, agreement, certification, or any combination of these.

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## 2 BIDDING

This section shall not apply to Encroachment Permit work.

Comply with Section 2 of the Caltrans Standard Specifications and Revised Standard Specifications.

The Board of Supervisors reserves the right to waive technical errors and discrepancies if it determines it is in the public interest to do so.

If the project has additive bid items or additive groups, the lowest responsible responsive bidder will be determined in accordance with Public Contract Code Division II, Part 3, Chapter 1, Section 20103.8, Subdivision (c) and as follows:

1. The project funding amount will be disclosed before the first bid is opened.
2. The lowest responsible bidder will be determined on the basis of the Total Base Bid plus Total Additive Items or Total Base Bid plus Total Additive Groups, if any.
3. In the event that all bids including Total Base Bid plus Total Additive Items or Total Base Bid plus Total Additive Groups exceeds the project funding amount, the lowest bid will be determined on the basis of the Total Base Bid plus those additive items or Total Base Bid plus those additive groups that, when taken in numerical order from the additive list, and added to the Total Base Bid are less than or equal to the funds available.

**Replace**

### **2-1.06B Supplemental Project Information**

#### **2-1.06B Supplemental Project Information**

The Department makes supplemental information available as specified in the special provisions.

**Replace**

### **2-1.33A General**

**of Section**

### **2-1.33 BID DOCUMENT COMPLETION**

#### **2-1.33A General**

Complete forms in the *Bid* book. Submit the forms with your bid.

On the Subcontractor List you may either submit the percentage of each bid item subcontracted with your bid or fax the percentage to (760) 878-2001 or deliver to 168 N. Edwards Street, Independence, CA 93526, within 24 hours after bid opening.

Except for the percentage of each bid item subcontracted, do not fax submittals.

**Replace**  
**2-1.34 BIDDER'S SECURITY**

**2-1.34 BIDDER'S SECURITY**

Submit your bid with one of the following forms of bidder's security equal to at least 10 percent of the bid:

1. Cash
2. Cashier's check
3. Certified check
4. Bidder's bond signed by a surety insurer who is licensed in California

If using a bidder's bond, you may use the form in the Bid book. If you do not use the form in the Bid book, use a form containing the same information.

If the bid schedule includes alternative or additive items or additive groups, the bid bond must equal to at least 10% of the bid plus all alternatives and additives.





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**4 SCOPE OF WORK**

This section shall not apply to Encroachment Permit work.

Comply with Section 4 of the Caltrans Standard Specifications and Revised Standard Specifications.

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## 5 CONTROL OF WORK

Comply with Section 5 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

**Replace**

### 5-1.01 GENERAL

#### 5-1.01 GENERAL

Section 5 includes specifications regarding the Contract parties' relations and Contract acceptance.

Furnish the resources except Department-furnished materials required to complete the work as described in the Contract.

Provide Quality Control (QC).

Work is subject to the Department's Quality Assurance (QA). The Department's QA does not relieve you of your responsibility to provide QC. Comply with section 6-3.05.

Ensure the Department's safe and unrestricted access to the work. Furnish facilities necessary for the Department's inspection.

Where the means and methods to complete the work are not described in the Contract, choose the means and methods to complete the work.

Where the Contract describes more than 1 construction method or more than 1 type of material or equipment, the Department does not assure that each construction method or type of material or equipment can be used successfully throughout all or any part of the project. You are responsible to use the alternative or alternatives that will accomplish the work under the conditions encountered.

Failure to comply with any Contract part is a waiver of your right to an adjustment of time and payment related to that part.

**Replace**

### 5-1.02 CONTRACT COMPONENTS

#### 5-1.02 CONTRACT COMPONENTS

A component in one Contract part applies as if appearing in each. The parts are complementary and describe and provide for a complete work.

If a discrepancy exists:

1. The governing ranking of Contract parts in descending order is:
    - 1.1. Special provisions
    - 1.2. Project plans
    - 1.3. Inyo County standard specifications
    - 1.4. Revised standard specifications
    - 1.5. Caltrans standard specifications
    - 1.6. Revised standard plans
    - 1.7. Standard plans
    - 1.8. The latest edition of the "Greenbook" Standard Specifications for Public Works Construction
    - 1.9. Supplemental project information
  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
- If a discrepancy is found or confusion arises, submit an RFI.

Replace

### **5-1.16 REPRESENTATIVE**

#### **5-1.16 REPRESENTATIVE**

Before starting work, assign a representative to:

1. Receive the Engineer's orders
2. Prosecute the Engineer's orders
3. Supervise the workers
4. Coordinate the subcontractors' work

The representative must be present at the job site while work is in progress. The representative must submit contact information (name, telephone number) so the representative can be easily contacted to perform emergency work while work is not in progress.

The representative must not be replaced without prior written approval from the Engineer.

**Add to**

### **5-1.23 SUBMITTALS**

Unless otherwise provided in the special provisions or approved by the Engineer, comply with section 9-1.16B and submit schedule of values for all lump sum items of work.

**Add to**

#### **5-1.23B Action Submittals**

##### **5-1.23B(8) Progress Estimates**

Before the 15<sup>th</sup> day of each month, prepare and submit a written application or payment or payment request. Each application must include work completed and materials on hand. Each estimate shall be accompanied by copies of paid invoices for materials.

**Replace**

### **5-1.26 CONSTRUCTION SURVEYS**

#### **5-1.26 CONSTRUCTION SURVEYS**

The County will provide project survey control. Set lines and grades under the direction of a licensed land surveyor or registered civil engineer. Provide all staking notes to the County.

**Add to**

### **5-1.27 RECORDS**

#### **5-1.27F Record Drawings**

County will provide one set of contract plans to be used to prepare Record Drawings.

Clearly and legibly annotate one set of plans to be used as Record Drawings. Record Drawings must reflect all changes, deletions, adjustments and other information incorporated into the Work. Include description and location of buried man-made object discovered during progress of Work.

Submit progress drawings with request for progress payment.

Before final inspection is requested, verify that "Record Drawings" represent the true, complete and accurate record of the Work.

**Add to**

### **5-1.32 AREAS FOR USE**

Make your own arrangements and pay all expenses for additional area needed beyond rights-of-way and easements shown on the Plans.

**Add to**  
**5-1.46 FINAL INSPECTION AND CONTRACT ACCEPTANCE**

When you request final inspection, submit:

1. Record Drawings
2. Equipment test records
3. All required Certificates of Compliance as applicable including:
  - a. [Permit, license, agreement, certification \(PLAC\) requirements](#)
  - b. Contractor-owner agreement
4. All Certifications of Inspection as applicable including:
  - a. Building inspection
  - b. Fire Marshall inspection
  - c. Health department inspection
  - d. Certificate of Occupancy
5. All ownership documents as applicable including:
  - a. Warranty
  - b. User manuals
  - c. Maintenance and operation manual
  - d. Computer software license, user guide, etc.

During final inspection, you must demonstrate all equipment and systems are operational as specified.

If the Engineer determine that all work is complete and no corrections are needed for incomplete or deficient work, he will issue a written notice of inspection.

If the Engineer causes re-inspection to be made to remedy defective work, the cost for all re-inspections will be deducted from Final Payment.

Written notice of inspection shall not be deemed as Contract Acceptance.

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## **6 CONTROL OF MATERIALS**

Comply with Section 6 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

### **Replace**

#### **6-2.03 DEPARTMENT-FURNISHED MATERIALS**

#### **6-2.03 DEPARTMENT-FURNISHED MATERIALS**

Section 6-2.03 does not apply to work under Encroachment Permit.

County provides up to (10) sets of Project Plans and Project Special Provisions.

Request Department-furnished material at least 15 days before their scheduled installation.

If the Department furnishes the material:

1. At the job site, unload and store the material
2. At a location other than the job site, deliver the material to the job site and store it

The Engineer orders the return and disposal of surplus Department-furnished material. This returning and disposing of material is change order work.

You are responsible for the cost of replacing Department-furnished material. The Department deducts replacement costs. Department-furnished material not used in the work remains the property of the Department.

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## 7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Comply with Section 7 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

**Add:**

Coordinate with other entities under Section 5-1.20. Obtain Encroachment Permit from the County and/or any other Public Agency affected by your work within public rights-of-way.

**Add to:**

**7-1.02K Labor Code**

**7-1.02K Labor Code**

Except where allowed under Public Contract Code Section 20103.5, or Business and Professions Code Section 7029.1, before submitting your bid, you and your subcontractors must be currently registered and qualified to perform public work pursuant to Section 1725.5 of the Labor Code.

**Replace**

**7-1.02K(5) Working Hours**

**7-1.02K(5) Working Hours**

Eight hours is a legal day's work (Labor Code § 1810).

Obtain written approval from the Engineer to perform work between the hours of 9:00 P.M. and 6:00 A.M.

If work is to be performed on Saturday, Sunday, Holiday or on overtime, notify the Engineer at least 48 hours in advance.

The time of service of any worker employed on public work is limited and restricted to 8 hours in 1 day and 40 hours in 1 calendar week, except as provided by Labor Code § 1815 (Labor Code § 1811).

A Contractor's employee may work more than 8 hours per day and 40 hours per week if the Contractor pays the employee 1-1/2 times the basic pay rate for the hours worked in excess of 8 hours per day and 40 hours per week (Labor Code § 1815).

For each worker employed in the work for each day the worker works more than 8 hours in 1 day and 40 hours in 1 calendar week without overtime pay, the Department deducts \$25 as a penalty for violating Labor Code § 1815 (Labor Code § 1813).

**Add to**

**7-1.03 PUBLIC CONVENIENCE**

Upon written notification to you, the Engineer may order completed portions of Work to be placed in service. If portions of Work is placed in service, you are relieved of maintenance responsibilities of the portion so placed into service. This does not relieve you from any other contractual responsibility. You will not be compensated for any delay to your construction activity caused by use and operation of completed portions.

The Engineer may order or consent to your request to open a completed section of project for public use. You will not be compensated for any delay to your construction activities caused by the public. This does not relieve you from any other contractual responsibility.

**Replace**

**7-1.06C Worker's Compensation and Employer's Liability Insurance**

**7-1.06C Workers' Compensation and Employer's Liability Insurance**

Under Labor Code § 1860, secure the payment of worker's compensation under Labor Code § 3700.

Submit to the Department the following certification before performing the work (Labor Code § 1861):

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

Contract signing constitutes certification submittal.

Provide Employer's Liability Insurance in amounts not less than:

1. \$1,000,000 for each accident for bodily injury by accident
2. \$1,000,000 policy limit for bodily injury by disease
3. \$1,000,000 for each employee for bodily injury by disease

If there is an exposure of injury to your employees under the U.S. Longshoremen's and Harbor Workers' Compensation Act, the Jones Act, or under laws, regulations, or statutes applicable to maritime employees, coverage must be included for such injuries or claims.

Waive all rights of subrogation against the County, its officers, officials, employees and volunteers for losses arising from work performed by you.



**Replace**

**7-1.06D(2) Liability Limits/Additional Insureds**

**7-1.06D(2) Liability Limits/Additional Insureds**

The limits of liability must be at least the values shown in the following table:

**Liability Limits**

Total bid	For each occurrence <sup>a</sup>	Aggregate for products/completed operation	General aggregate <sup>b</sup>	Umbrella or excess liability <sup>c</sup>
≤ \$1,000,000	\$1,000,000	\$2,000,000	\$2,000,000	\$5,000,000
> \$1,000,000 ≤ \$10,000,000	\$1,000,000	\$2,000,000	\$2,000,000	\$10,000,000
> \$10,000,000 ≤ \$25,000,000	\$2,000,000	\$2,000,000	\$4,000,000	\$15,000,000
> \$25,000,000	\$2,000,000	\$2,000,000	\$4,000,000	\$25,000,000

<sup>a</sup>Combined single limit for bodily injury and property damage.

<sup>b</sup>This limit must apply separately to your work under this Contract.

<sup>c</sup>The umbrella or excess policy must contain a clause stating that it takes effect (drops down) in the event the primary limits are impaired or exhausted.

Unless otherwise provided in the special provisions or approved by the Engineer, require all subcontractors to carry liability insurance to the limits shown in the preceding table.

The County, including its officers, directors, agents (excluding agents who are design professionals), and employees, must be named as additional insureds under the General Liability and Umbrella Liability Policies with respect to liability arising out of or connected with work or operations performed by or on behalf of you under this Contract. Coverage for such additional insureds does not extend to liability:

1. Arising from any defective or substandard condition of the roadway which existed at or before the time you started work, unless such condition has been changed by the work or the scope of the work requires you to maintain existing roadway facilities and the claim arises from your failure to maintain;
2. For claims occurring after the work is completed and accepted unless these claims are directly related to alleged acts or omissions of you that occurred during the course of the work; or
3. To the extent prohibited by Ins Code § 11580.04.

Additional insured coverage must be provided by a policy provision or by an endorsement providing coverage at least as broad as *Additional Insured* (Form B) endorsement form CG 2010, as published by the Insurance Services Office (ISO), or other form designated by the Department.

**Replace**

**7-1.06F Policy Forms, Endorsements, and Certificates**

**7-1.06F Policy Forms, Endorsements, and Certificates**

Unless otherwise specified in the special provisions or directed by the Engineer, provide General Liability Insurance, for you and your subcontractors, under Commercial General Liability policy form no. CG0001 as published by the Insurance Services Office (ISO) or under a policy form at least as broad as policy form no. CG0001.



**8 PROSECUTION AND PROGRESS**

Comply with Section 8 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

For Encroachment Permit work, do not start work prior to obtaining permit approval.

**Add to  
8-1.02 SCHEDULE**

For contract up to \$500,000, prepare and submit construction schedule before or at the preconstruction conference. For each schedule submittal:

- 1. Use tabulation, chart or graph in sufficient detail to show chronological relationship of all activities of Work
- 2. Identify estimated starting and completion dates of various activities, submissions of submittals, procurement of materials and scheduling of equipment
- 3. Incorporate PLAC requirements
- 4. Incorporate requirements for protection, removal or relocation of utilities

For contract over \$500,000, comply with Section 8-1.02B of the Standard Specifications.

Submit revised schedule in advance of beginning revised operations or as requested by the Engineer.



**Replace**  
**9-1.16B Schedule of Values**

**9-1.16B Schedule of Values**

Section 9-1.16B applies to lump sum bid items.

The sum of the amounts for the work units listed in the schedule of values must equal the lump sum price bid for the bid item.

Obtain authorization of a schedule of values before you perform work shown on the schedule. The Department does not process a progress payment for the bid item without an authorized schedule of values.

Accept progress payments for overhead, profit, bond costs, and other fixed or administrative costs as distributed proportionally among the items listed except that for a contract with a bid item for mobilization, accept progress payments for bond costs as included in the mobilization bid item.

For changed quantities of the work units listed, the Department adjusts payments in the same manner as specified for changed quantities of bid items under section 9-1.06.

Each schedule of values must:

1. Be 8-1/2 by 11 inches, typed on white paper and include:
  - 1.1. Title of project and location
  - 1.2. Project number
  - 1.3. Name and address of contractor
  - 1.4. Date of submission
  - 1.5. Page number and total number of pages
2. List installed value of the component items of the work
3. Use format for special provisions table of contents to list component item including divisions and sections. Identify each line item with the number and title of each major section
4. Include sub-values of major products or operations for each major line item
5. For various portions of the work:
  - 5.1. Each item include directly proportional amount of the contactors overhead and profit
  - 5.2. Items with requested progress payments for stored materials, include:
    - 5.2.1. Cost of material, delivered and unloaded, including taxes paid
    - 5.2.2. Total installed value

**Replace**  
**9-1.16E(4) Stop Notice Withholds**

**9-1.16E(4) Stop Notice Withholds**

The Department may withhold payments to cover claims filed under Civ Code § 9000 et seq.

Stop notice information may be obtained from the County of Inyo Auditor's Office and Public Works Department.

Instead of withholds, you may provide a bond equal to 125 percent of the amount claimed in the stop notice. Corporate surety must be different than Labor and Material Bond surety.

**Replace**  
**9-1.16F Retentions**

**9-1.16F Retentions**

The County will retain 5 percent from progress payments until contract is completed. Instead of the retention, you may provide equivalent securities.



## **11 QUALITY CONTROL AND ASSURANCE**

Comply with Section 11 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

**Replace**

### **11-1.01 GENERAL**

#### **11-1.01 GENERAL**

Section 11 includes specifications relating to quality control and assurance.

You are responsible to provide quality control. The County may employ multiple quality assurance methods including sampling and testing.

Manage material source under section 6-2.

Manage material substitutions under section 6-3.02.

Manage County’s quality assurance program (inspection) under section 6-3.05. Provide 48 hours advance written notice. Failure to comply will subject work to rejection.

Guarantee work under section 6-3.06.

**Add**

### **11-1.03 ACCESS**

#### **11-1.03 ACCESS**

Provide access to the work under Section 5-1.01.

**Add**

### **11-1.04 LAB INSPECTOR**

#### **11-1.04 LAB INSPECTOR**

When County retains an independent lab inspector to perform sampling and testing, provide access to the work under Section 5-1.01.

Lab inspectors have no authority to:

- 1. Release, revoke, alter or enlarge on work
- 2. Approve or accept any portion of work
- 3. Issue stop order

**Add**

### **11-1.05 NONCOMPLIANT AND UNAUTHORIZED WORK**

#### **11-1.05 NONCOMPLIANT AND UNAUTHORIZED WORK**

Correct or remove and replace that does not comply with the Contract, is unauthorized, or both under section 5-1.30.



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**SECTIONS 14 ENVIRONMENTAL STEWARDSHIP**

Comply with Section 14 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

**Add to**

**14-10 SOLID WASTE DISPOSAL AND RECYCLING**

Burning at the site is prohibited.



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**SECTIONS 15**

Comply with Sections 15 of the Caltrans Standard Specifications and Revised Standard Specifications,  
and

Comply with Section 5-1.36 Property and Facility Preservation.

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**SECTIONS 16 THROUGH 38**

Comply with Sections 16 through 38 of the Caltrans Standard Specifications and Revised Standard Specifications.

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**SECTION 39 HOT MIX ASPHALT**

Comply with Section 39 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

For Encroachment Permit work:

**Replace**

**39-1.02 MATERIALS**

**39-1.02 HOT MIX ASPHALT MATERIALS (ENCROACHMENT PERMIT)**

Unless otherwise authorized by the Department, HMA for Encroachment Permit work must be from commercially available sources with current Caltrans certifications.





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**SECTIONS 67 THROUGH 72**

Comply with Sections 67 through 72 of the Caltrans Standard Specifications and Revised Standard Specifications.

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## SECTION 73

Comply with Section 73 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

### Replace

#### 73-1.03E Expansion and Contraction Joints

##### 73-1.03E Expansion and Contraction Joints

Construct contraction joints by scoring concrete with a grooving tool and rounding corners with an edger tool or saw cutting hardened concrete to a depth of at least 1 inch. Apply curing compound immediately to the exposed surfaces of sawcut joints.

Construct expansion joints at each side of a structure and at each end of a curb return using ½ inch thick preformed joint filler. Finish concrete adjacent to expansion joints with an edger tool. Do not construct expansion joints closer than 20 feet to an island nose. Shape preformed joint filler to match surface contour of concrete.

You may construct expansion joints by saw cutting through the full depth of the concrete cross section. The width of the sawcut must provide for a tight fit of the preformed joint filler.

If joint is cut before concrete has hardened:

1. Protect adjacent surfaces with close fitting, firmly supported shields.
2. Complete sawcut and insertion of the preformed joint filler before curing concrete.

If joint is cut after concrete has hardened:

1. Mortar preformed joint filler in place using heavy trowel pressure.
2. Cover exposed portions of concrete in the vicinity of sawcut with an additional application of curing compound.

After concrete has cured, check joint filler for tight fit. If any loose joints are found, mortar joint in place and check after mortar has cured. Repeat as necessary to achieve a tight fit.

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**SECTION 74 THROUGH 99**

Comply with Sections 74 through 99 of the Caltrans Standard Specifications and Revised Standard Specifications and Revised Standard Specifications.



# **STANDARD DETAILS**

# STANDARD DETAILS

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NUMBER**

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A-118.....	CATTLE GUARD DETAILS & NOTES
A-119.....	STANDARD UTILITY BURIAL
A-120.....	[RESERVED]
A-121.....	CURB RAMP – TWO RAMP CORNER INSTALLATION
A-122.....	CURB RAMP – ONE RAMP INSTALLATION – SIDEWALK SEPARATED FROM CURB

# STANDARD DETAILS

## TABLE OF CONTENTS

**DRAWING  
NUMBER**

**DESCRIPTION**

**STREETS, ROADS, INTERSECTION, TRANSITIONS,  
IMPROVEMENTS, & WORK WITHIN RIGHT OF WAY (CONTINUED)**

A-123.....	CURB RAMP – ONE RAMP INSTALLATION – SIDEWALK ADJACENT TO CURB
A-124.....	CURB RAMP CASE A
A-125.....	CURB RAMP CASE B
A-126.....	CURB RAMP CASE C
A-127.....	CURB RAMP CASE D
A-128.....	CURB RAMP CASE E
A-129.....	CURB RAMP CASE F
A-130.....	CURB RAMP CASE G
A-131.....	DETECTABLE SURFACE DETAIL

**DRAINAGE IMPROVEMENTS**

D-100 .....	CUTOFF WALL FOR DRAINAGE CHANNEL
D-101 .....	GRAVITY HEADWALL
D-102 .....	CATCH BASIN – MOUNTAIN ROADS
D-103 .....	CATCH BASIN – MOUNTAIN ROADS DETAILS
D-104 .....	LOCAL DEPRESSION IN A.C. PAVING
D-105 .....	24” MANHOLE FRAME & COVER – PARKWAY
D-106 .....	24” MANHOLE FRAME & COVER – ROADWAY
D-107 .....	HEADWALL – WING TYPE
D-108 .....	HEADWALL – “U” TYPE
D-109 .....	CATCH BASIN - TYPE “A”
D-109A.....	CATCH BASIN NOTES
D-109B.....	CATCH BASIN - PLATE DETAIL
D-110 .....	STORM DRAIN CLEANOUT
D-111 .....	CULVERT BURIAL – LESS THAN 1’ COVER

# STANDARD DETAILS

## TABLE OF CONTENTS

**DRAWING  
NUMBER**

**DESCRIPTION**

**ROAD SIGNS AND MARKERS**

RS-100 ..... STREET NAME SIGN DETAILS & SPECIFICATIONS

RS-101 .....STREET NAME SIGN PLACEMENT

RS-102 ..... TIMBER BARRICADE

RS-103 ..... OBJECT MARKERS

**LIGHTING AND ELECTRICAL SYSTEMS**

ES-100 ..... STREET LIGHTING – PLACEMENT LOCATIONS

ES-101 ..... STREET LIGHTING – POLES & DESIGN CRITERIA

ES-102 ..... STREET LIGHTING-BASE DETAIL

**WATER SYSTEMS**

W-100 ..... 1 INCH SERVICE INSTALLATION

W-101 ..... 1.5 INCH SERVICE INSTALLATION

W-102 ..... 2 INCH SERVICE INSTALLATION

W-103 ..... 4" DOMESTIC METER SERVICE

W-104 ..... [RESERVED]

W-105 ..... 6" DOMESTIC METER SERVICE

W-106 ..... [RESERVED]

W-107 ..... 4" FIRE SERVICE METER

W-108 ..... [RESERVED]

W-109 ..... 6" FIRE SERVICE METER

W-110 ..... [RESERVED]

W-111 ..... YARD HYDRANT DETAIL

W-112 ..... REDUCER THRUST BLOCK DETAIL

W-113 ..... CONCRETE THRUST BLOCK DETAIL

W-114 ..... TRENCH DETAIL

# STANDARD DETAILS

## TABLE OF CONTENTS

**DRAWING  
NUMBER**

**DESCRIPTION**

**WATER SYSTEMS (CONTINUE)**

W-115..... TEMPORARY BLOW OFF DETAILS

W-116..... GATE VALVE INSTALLATION DETAILS

W-117.....LOCATOR WIRE DETAIL

W-118..... TYPICAL SUBSTRUCTURE CROSSING DETAIL

W-119..... WATER, RECYCLED WATER, AND SEWER MAIN  
PERPENDICULAR SEPARATIONS

W-120..... WATER, RECYCLED WATER, AND SEWER MAIN  
PARALLEL SEPARATIONS

W-121..... WATER, RECYCLED WATER, AND SEWER MAIN  
PARALLEL AND PERPENDICULAR SEPARATION NOTES

W-122..... [RESERVED]

W-123..... PVC CASING SKID DETAILS

W-124.....NEW FIRE HYDRANT INSTALLATION DETAILS

W-125..... FIRE HYDRANT REPLACEMENT  
ON OVERSIZED LATERAL PIPE WITH CONCRETE

W-126..... [RESERVED]

W-127..... 4-POST FIRE HYDRANT GUARD

W-128..... ALLOWABLE LEAKAGE CHART FOR TESTING OF  
PIPES WITH RUBBER JOINTS

**SEWER SYSTEMS**

S-100..... 48" DIAMETER PRECAST MANHOLE INSTALLATION

S-101..... SEWER MANHOLE BASE

S-102..... MANHOLE PIPE CONNECTIONS

S-103.....MANHOLE MISCELLANEOUS DETAILS

S-104..... EXISTING MANHOLE ABANDONMENT

# **APPENDIX A**

## **INYO COUNTY ENCROACHMENT PERMIT**

# INYO COUNTY PUBLIC WORKS DEPARTMENT



P.O. DRAWER Q  
INDEPENDENCE, CA 93526  
(760) 878-0201 Independence  
(760) 873-8481 Bishop  
(760) 878-2001 Fax

Permit No. \_\_\_\_\_

## APPLICATION FOR ENCROACHMENT PERMITS

### TO PERFORM WORK IN THE RIGHT-OF-WAY OF INYO COUNTY ROADS

Minimum Permit Fee of \$50.00 is required with all applications. Additional Fees will be calculated for each permit, and payable before permit is issued.

Please answer all questions below. Attach additional sheets if necessary.

Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Describe Work: \_\_\_\_\_

Location of Work: \_\_\_\_\_

Assessor Parcel Number  
of adjacent property: \_\_\_\_\_ Dates when work is anticipated: \_\_\_\_\_

Attach Plans or Drawings of proposed encroachment work (see checklist)  
Applicant agrees to do the work in accordance with Inyo County rules and regulations, standard specifications, and subject to County inspection and approval.

**INDEMNIFICATION REQUIREMENTS:**

Permit No. \_\_\_\_\_

Permittee shall defend, indemnify, and hold harmless County, its agents, officers, and employees from and against all claims, damages, losses, judgments, liabilities, expenses, and other costs, including litigation costs and attorney's fees, arising out of, resulting from, or in connection with, the performance of this Agreement by Permittee, or Permittee's agents, officers, or employees, or the failure of Permittee, or Permittee's agents, officers, or employees to comply with any of its obligations contained in this Agreement, and that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of Permittee or its employees or agents in the performance of services under this contract. Permittee's obligation to defend, indemnify, and hold the County, its agents, officers, and employees harmless applies to any actual or alleged personal injury, death, or damage or destruction to tangible or intangible property, including the loss of use. Permittee's obligation under this paragraph extends to any claim, damage, loss, liability, expense, or other cost which is caused in whole or in part by any negligence, recklessness or willful misconduct of the Permittee, its agents, employees, suppliers, or of any one directly or indirectly employed by any of them, or anyone for whose negligence, recklessness or willful misconduct any of them may be liable.

Permittee's obligation to defend, indemnify, and hold the County, its agents, officers, and employees harmless under the provisions of this paragraph is not limited to, or restricted by, any requirement in this Agreement for Permittee to procure and maintain a policy of insurance.

To the extent permitted by law, County shall defend, indemnify, and hold harmless Permittee, its agents, officers, and employees from and against all claims, damages, losses, judgments, liabilities, expenses, and other costs, including litigation costs and attorney's fees, arising out of, or resulting from, the active negligence, or wrongful acts of County, its officers, or employees.

**SPECIAL CONDITIONS:** \_\_\_\_\_

**INYO COUNTY PUBLIC WORKS DEPARTMENT**

PERMITTEE SIGNATURE: \_\_\_\_\_ Date: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ Date: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_



# **APPENDIX B**

## **INYO COUNTY IMPROVEMENT PLAN CHECKLIST**

# INYO COUNTY PUBLIC WORKS DEPARTMENT

## IMPROVEMENT PLAN CHECKLIST

Work Order # \_\_\_\_\_ Checked by: \_\_\_\_\_

Schedule: \_\_\_\_\_ Date: \_\_\_\_\_

### A. PREPARATION OF SHEETS

- \_\_\_ 1. Plan and profile cloth 24" x 36"
- \_\_\_ 2. Drawings shall be in ink and all work must be clearly reproducible
- \_\_\_ 3. Submit eight (8) sets of prints for F.A.S. Projects, and two (2) sets for all other work
- \_\_\_ 4. Submit original for final approval

### B. INDEX AND VICINITY MAP

- \_\_\_ 1. Shown on first sheet
- \_\_\_ 2. Street names shown thereon
- \_\_\_ 3. Flow diagram with drainage arrows
- \_\_\_ 4. Show tie to nearby County Maintained Road System
- \_\_\_ 5. Show location of drainage structures (existing and proposed)
- \_\_\_ 6. Show "Q" for all drainage facilities on work sheet for County review

### C. TITLE BLOCK

- \_\_\_ 1. Use County Road Department Title Block
- \_\_\_ 2. Show all sheet numbers
- \_\_\_ 3. Tract Number, Work Order Number or File Number
- \_\_\_ 4. Registered Engineer's signature and number
- \_\_\_ 5. Date

### D. PLAN VIEW

- \_\_\_ 1. North Arrow (pointing up or to the right)
- \_\_\_ 2. Stationing shall be from south to north or west to east
- \_\_\_ 3. Centerline stationing shown on plan view
- \_\_\_ 4. Stationing at all intersection with equations if applicable
- \_\_\_ 5. Stationing of all BCR's and ECR's
- \_\_\_ 6. Stationing of all BC's and EC's
- \_\_\_ 7. Stationing of end improvements
- \_\_\_ 8. Stationing of end curb and gutter
- \_\_\_ 9. Scale (1" = 40')

- \_\_\_ 10. Show names of all streets
- \_\_\_ 11. Curb return data (delta, tangent, radius and length)
- \_\_\_ 12. Show flow line elevations at all BCR's and ECR's
- \_\_\_ 13. Show flow line elevations on cross gutter at intersections
- \_\_\_ 14. Centerline curve data
- \_\_\_ 15. Right-of-Way lines and easement lines
- \_\_\_ 16. Lot numbers
- \_\_\_ 17. Show connections to existing improvements with elevations and stationing
- \_\_\_ 18. Stopping sight distance adequate for design speed. See design designation
- \_\_\_ 19. Lengths and stationing of transitions or superelevations (if required); also of transitional paved sections for drainage control. Show improvements to be constructed with solid lines, existing improvements shown with dashed lines.
- \_\_\_ 20. Limits of different types of curb and gutter, if applicable
- \_\_\_ 21. Show detail of all proposed streets if necessary
- \_\_\_ 22. Show typical sections for all streets per County Standards:
  - \_\_\_ a. Dimensions of right-of-way, pavement and parkway
  - \_\_\_ b. Base material thickness
  - \_\_\_ c. Asphalt concrete thickness
  - \_\_\_ d. Curb sections
  - \_\_\_ e. Base material under curb section if required
  - \_\_\_ f. Slopes to adjacent property lines
  - \_\_\_ g. Supplemental cross sections required for different design widths, structural sections, half width streets, etc.
  - \_\_\_ h. Note if in Select System
- \_\_\_ 23. Note size, length and gauge of CMP
- \_\_\_ 24. Note size, length and "D" strength of RCP
- \_\_\_ 25. Show construction notes wherever necessary to clarify construction details
- \_\_\_ 26. Show existing pipe lines, weir boxes, irrigation systems, utility poles, traffic control devices, etc., in or adjacent to right-of-way and include note as to their disposition.
- \_\_\_ 27. Refer to Public Works Standard Detail where applicable
- \_\_\_ 28. Specifications note, if different from County Standards
- \_\_\_ 29. Improved drainage easements shall provide either pipe or concrete lined ditch sections. Lined ditches shall have the soil sterilized prior to placement of lining.
- \_\_\_ 30. Slope easements, delineated
- \_\_\_ 31. Identify pavement transition dimensions (2' minimum) Feather over a minimum of two feet when meeting existing pavement

- \_\_\_ 32. Details of drainage facilities
- \_\_\_ 33. Check benchmark location, elevation and survey control data

#### E. PROFILE VIEW

- \_\_\_ 1. Scale (1"=4' or 1"=8' on prior approval)
- \_\_\_ 2. Existing and future centerline
- \_\_\_ 3. Existing ground at right-of-way line both right and left of centerline
- \_\_\_ 4. Edge of existing pavement both right and left
- \_\_\_ 5. Existing and future top of curb both right and left of centerline with BCR; MOCR; ECR notations, and ¼ points on curb return
- \_\_\_ 6. Show datum elevations on each end of sheet at the centerline ground line and at the right-of-way ground lines
- \_\_\_ 7. If curbs are variable height, show with elevations and station at break points
- \_\_\_ 8. Label all grade lines and profiles; show percent of grade on each
- \_\_\_ 9. Stationing and elevations at beginning and end of improvement
- \_\_\_ 10. Stationing and elevations
- \_\_\_ 11. Stationing and elevations at P.I.
- \_\_\_ 12. Elevations every twenty-five feet (25') on vertical curves
- \_\_\_ 13. Elevations and stationing at all grade breaks
- \_\_\_ 14. Extend profiles beyond end of improvement for 300 feet; if new road intersects existing street, show profile on existing street for 100 feet each way
- \_\_\_ 15. At drainage easements, show profile for grading and daylight to natural ground
- \_\_\_ 16. Indicate length of curb returns
- \_\_\_ 17. Stationing at bottom of profile sheet
- \_\_\_ 18. Names and stationing at intersection street points
- \_\_\_ 19. Structure to scale, note critical flow line elevations (capacity of structure)
- \_\_\_ 20. Use straight grades for cross gutters without flattening; grade of cross gutters shall be in relation to street centerline grade
- \_\_\_ 21. Use vertical curves for all grade break differentials more than 1%
- \_\_\_ 22. The minimum fall from BCR to cross gutter shall be 0.30 feet
- \_\_\_ 23. Profile to be shown of graded or improved drainage facilities

### TRANSMITTALS

Returned to Engineer	
Date	By

Received from Engineer	
Date	By

### NOTES:

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# **APPENDIX C**

## **INYO COUNTY PERMIT FEE SCHEDULE**

# INYO COUNTY PUBLIC WORKS DEPARTMENT

## PERMIT FEES

### TRENCHING

Trenching across street:

0-50 feet	\$50.00
51-100 feet	\$1.00 per foot
Over 100 feet	\$100.00 plus \$0.30 per foot of length greater than 100 feet

Trenching parallel to centerline of street and boring

0-100 feet	\$50.00
101-1500 feet	\$50.00 plus \$0.30 per foot of length greater than 100 feet
Over 1500 feet	\$200.00 plus \$0.10 per foot of length greater than 1500 feet

### SPLIT TRENCHING WITH CABLE PLACEMENT

All distances	\$50.00 plus \$0.05 per foot
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**TRANSPORTATION PERMITS:** \$16.00

### TREE REMOVAL ON COUNTY RIGHT-OF-WAY

By licensed contractor only	\$5.00
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**A**

Access	17
Areas for Use	7
As-Builts	See Record Drawings
Asphalt	22

**B**

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**Bids**

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**Bond**

Bid	3
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Bonds	4
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Cost Breakdown	See Schedule of Values
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Curb	26
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**F****Fees**

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Greenbook	1, 6
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**H**

HMAC	22
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**I**

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**L**

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Labor Code	10
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Lump Sum	7
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**M**

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**N**

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**Notice**

Advance	17
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**O**

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**P**

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Pipe	See Culvert
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PLAC	1, 13
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Progress Payment	14
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**R**

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**Registration**

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**U**

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**W**

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Work Portion	10
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**Worker's Compensation**

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Working Hours	10
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