STANDARD SPECIFICATIONS AND STANDARD DETAILS



Prepared by: Inyo County Public Works Department May 2020

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:

https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications

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.

County: The County of Inyo; or respective authorized representatives.

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
Martin Luther King Jr. Day
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/or 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.

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 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

2-1.33A General

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

Failure to submit the forms and information as specified may result in a nonresponsive 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 2-1.33B(2)(b)(ii) Non-Informal-Bid Contract

2-1.33B(2)(b)(ii) Non-Informal-Bid Contract

For a non-informal-bid contract, submit the bid forms according to the schedule shown in the following table:

Non-Informal Bid Federal-Aid Contract with a DBE Goal		
Form	Submittal deadline	
Bid to the Department of Public Works	Time of bid except for the public works contractor registration number	
Copy of the Bid to the Department of Public Works as submitted at the time of bid with the public works contractor registration number	10 days after bid opening	
Subcontractor List	Time of bid except for the public works contractor registration number	
Copy of the Subcontractor List as submitted at the time of bid with the public works contractor registration number	10 days after bid opening	
Small Business Status	Time of bid	
Opt Out of Payment Adjustments for Price Index Fluctuations ^a	Time of bid	
DBE Commitment	No later than 4 p.m. on the 5th day after bid opening ^b	
DBE Confirmation	No later than 4 p.m. on the 5th day after bid opening ^b	
DBE Good Faith Efforts Documentation	No later than 4 p.m. on the 5th day after bid opening ^b	

Bid Form Submittal Schedule for a Non-Informal Bid Federal-Aid Contract with a DBE Goal

^aSubmit only if you choose the option.

^bIf the last day for submitting the bid form falls on a Saturday or holiday, it may be submitted on the next business day with the same effect as if it had been submitted on the day specified.

Replace 2-1.33B(2)(b)(iii) Non-Informal-Bid Contract

2-1.33B(2)(b)(iii) Informal-Bid Contract

For an informal-bid contract, submit the bid forms according to the schedule shown in the following table:

Informal-Bid Federal-Aid Contract with a DBE Goal		
Form	Submittal deadline	
Bid to the Department of Public Works	Time of bid	
Subcontractor List	Time of bid	
Small Business Status	Time of bid	
Opt Out of Payment Adjustments for Price Index	Time of bid	
Fluctuationsa		
DBE Commitment	No later than 4 p.m. on the 5th day after bid	
	opening _b	
DBE Confirmation	No later than 4 p.m. on the 5th day after bid	
	opening₀	
DBE Good Faith Efforts Documentation	No later than 4 p.m. on the 5th day after bid	
	opening₀	

Bid Form Submittal Schedule for an Informal-Bid Federal-Aid Contract with a DBE Goal

^aSubmit only if you choose the option.

^bIf the last day for submitting the bid form falls on a Saturday or holiday, it may be submitted on the next business day with the same effect as if it had been submitted on the day specified.

Replace 2-1.33B(2)(c)(ii) Non-Informal-Bid Contract

2-1.33B(2)(c)(ii) Non-Informal-Bid Contract

For a non-informal-bid contract, submit the bid forms according to the schedule shown in the following table:

Bid Form Submittal Schedule for a Non-Informal-Bid Federal-Aid Contract without a DBE

Goal		
Form	Submittal deadline	
Bid to the Department of Public Works	Time of bid except for the public works contractor registration number	
Copy of the Bid to the Department of Public Works as submitted at the time of bid with the public works contractor registration number	10 days after bid opening	
Subcontractor List	Time of bid except for the public works contractor registration number	
Copy of the Subcontractor List as submitted at the time of bid with the public works contractor registration numbers	10 days after bid opening	
Small Business Status	Time of bid	
Opt Out of Payment Adjustments for Price Index Fluctuations ^a	Time of bid	

^a Submit only if you choose the option.

Replace 2-1.33B(2)(c)(iii) Non-Informal-Bid Contract

2-1.33B(2)(c)(iii) Non-Informal-Bid Contract For an informal-bid contract, submit the bid forms according to the schedule shown in the following table:

Bid Form Submittal Schedule for an Informal-Bid Federal-Aid Contract without a DBE Goal

Form	Submittal deadline
Bid to the Department of Public Works	Time of bid
Subcontractor List	Time of bid
Small Business Status	Time of bid
Opt Out of Payment Adjustments for Price Index Fluctuations ^a	Time of bid

^aSubmit only if you choose the option.

Replace 2-1.33B(3)(b)(ii) Non-Informal-Bid Contract

2-1.33B(3)(b)(ii) Non-Informal-Bid Contract

For a non-informal-bid contract, submit the bid forms according to the schedule shown in the following table:

Form	Submittal deadline
Bid to the Department of Public Works	Time of bid except for the public works
	contractor registration number for a joint-venture
	contract
For a joint-venture contract, copy of the Bid to	10 days after bid opening
the Department of Public Works as submitted at	
the time of bid with the public works contractor	
registration number	
Subcontractor List	Time of bid
Opt Out of Payment Adjustments for Price Index	Time of bid
Fluctuations ^a	
Certified DVBE Summary	No later than 4 p.m. on the 4th business day
	after bid opening
California Company Preference	Time of bid
Request for Small Business Preference or Non-	Time of bid
Small Business Preference ^a	
Certified Small Business Listing for the Non-	No later than 4 p.m. on the 2nd business day
Small Business Preference ^a	after bid opening

Bid Form Submittal Schedule for a Non-Informal-Bid Non-Federal-Aid Contract with a DVBE Goal

^aSubmit only if you choose the option or preference.

Replace 2-1.33B(3)(b)(iii) Informal-Bid Contract

2-1.33B(3)(b)(iii) Informal-Bid Contract

For an informal-bid contract, submit the bid forms according to the schedule shown in the following table: Bid Form Submittal Schedule for an

Informal-Bid Non-Federal-Aid Contract with a DVBE Goal

Form	Submittal deadline
Bid to the Department of Public Works	Time of bid
Subcontractor List	Time of bid
Opt Out of Payment Adjustments for Price Index Fluctuations ^a	Time of bid
Certified DVBE Summary	Time of bid
California Company Preference	Time of bid
Request for Small Business Preference or Non–Small Business Preference ^a	Time of bid
Certified Small Business Listing for the Non–Small Business Preference ^a	Time of bid

^aSubmit only if you choose the option or preference.

Replace 2-1.33B(3)(c)(ii) Informal-Bid Contract

2-1.33B(3)(c)(ii) Informal-Bid Contract

For a non-informal-bid contract, submit the bid forms according to the schedule shown in the following table:

Bid Form Submittal Schedule for a
Non-Informal-Bid Non-Federal-Aid Contract without a DVBE Goal

Submittal deadline
Time of bid except for the public works contractor
registration number for a joint-venture contract
10 days after bid opening
Time of bid
Time of bid
Time of bid
No later than 4 p.m. on the 4th business day after
bid opening
Time of bid
No later than 4 p.m. on the 2nd business day
after bid opening

^aSubmit only if you choose the option or preference.

^bSubmit only if you obtain DVBE participation or you are the apparent low bidder, 2nd low bidder, or 3rd low bidder and you choose to receive the specified incentive.

Replace 2-1.33B(3)(c)(iii) Informal-Bid Contract

2-1.33B(3)(c)(iii) Informal-Bid Contract

For an informal-bid contract, submit the bid forms according to the schedule shown in the following table:

informal-blu Non-i ederal-Alu Contract without a DVBL Goal					
Form	Submittal deadline				
Bid to the Department of Public Works	Time of bid				
Subcontractor List	Time of bid				
Opt Out of Payment Adjustments for Price Index	Time of bid				
Fluctuations ^a					
Certified DVBE Summary ^b	Time of bid				
Request for Small Business Preference or Non-	Time of bid				
Small Business Preference ^a					
Certified Small Business Listing for the Non-	Time of bid				
Small Business Preference ^a					

Bid Form Submittal Schedule for an Informal-Bid Non-Federal-Aid Contract without a DVBE Goal

^aSubmit only if you choose the option or preference.

^bSubmit only if you obtain DVBE participation or you are the apparent low bidder, 2nd low bidder, or 3rd low bidder and you choose to receive the specified incentive.

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
- 5. Electronic bidder's bond by an admitted surety insurer submitted using an electronic registry service approved by the Department (If available).

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.

3 CONTRACT AWARD AND EXECUTION

This section shall not apply to Encroachment Permit work.

Comply with Section 3 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

Replace 3-1.05 CONTRACT BONDS

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 Contract amount.
- 2. Performance bond to guarantee the faithful performance of the Contract. This bond must be equal to at least 100 percent of the Contract amount.

The Department furnishes the successful bidder with bond forms.

Delete

3-1.08 SMALL BUSINESS PARTICIPATION REPORT

Delete 3-1.11 PAYEE DATA RECORD

Replace 3-1.18 CONTRACT EXECUTION

3-1.18 CONTRACT EXECUTION

The successful bidder must sign the Contract form.

Deliver two (2) fully executed (except for the County's signature) to the Office Engineer:

- 1. Signed Contract form
- 2. Contract bonds
- 3. Documents identified in section 3-1.07
- 4. Payee Data Record
- 5. Invo County Small Business (SB) Participation Report form (when called for in special provisions)
- 6. For a federal-aid contract, Caltrans Bidder DBE Information form

For an informal-bid contract, the Office Engineer must receive these documents before the 5th business day after the bidder receives the contract.

For all other contracts, the Office Engineer must receive these documents before the 10th business day after the bidder receives the contract.

The bidder's security may be forfeited for failure to execute the contract within the time specified (Pub Cont Code §§ 10181, 10182, and 10183).

A copy of the Contract form is included in your bid book.

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.

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 inspection, sampling, and testing. The Department's inspection, sampling, and testing do not relieve you of your responsibility to provide QC.

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. Caltrans revised standard specifications
 - 1.5. Caltrans standard specifications
 - 1.6. Inyo County standard plans
 - 1.7. Caltrans revised standard plans
 - 1.8. Caltrans standard plans
 - 1.9. The latest edition of the "Greenbook" Standard Specifications for Public Works Construction
 - 1.10. 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. Submit the representative's name and 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(3) Progress Estimates

Before the 15th 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 discover 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 determines that all work is complete and no corrections are needed for incomplete or deficient work, the engineer 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.

6 CONTROL OF MATERIALS

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

Replace 6-1.02 DEPARTMENT-FURNISHED MATERIALS

6-1.02 DEPARTMENT-FURNISHED MATERIALS

Section 6-1.02 does not apply to work under Encroachment Permit.

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.

Add To

6-2.02A General

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

Add To 6-2.03A General

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 To

6-2.03B Job Site Inspection and Testing

Provide 48 hours advance written notice. Failure to comply will subject work to rejection.

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

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

Add to:

7-1.01 GENERAL

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

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 7-1.05 INDEMNIFICATION

7-1.05 INDEMNIFICATION

7-1.05A General

You must defend, indemnify, and save harmless the County, including its officers, officials, employees, volunteers, and agents (excluding agents who are design professionals), from any and all claims, demands, causes of action, damages, costs, expenses, actual attorneys' fees, losses or liabilities, in law or in equity (Section 7-1.05 Claims) arising out of or in connection with your performance of this Contract for:

- 1. Bodily injury including, but not limited to, bodily injury, sickness or disease, emotional injury or death to persons, including, but not limited to, the public, any employees or agents of you, the County, or any other contractor; and
- 2. Damage to property of anyone including loss of use thereof; caused or alleged to be caused in whole or in part by any negligent or otherwise legally actionable act or omission of you or anyone directly or indirectly employed by you or anyone for whose acts you may be liable.

Except as otherwise provided by law, these requirements apply regardless of the existence or degree of fault of the County. You are not obligated to indemnify the County for Claims arising from conduct delineated in Civ Code § 2782 and for Claims arising from any defective or substandard condition of the highway that existed at or before the start of work, unless this condition has been changed by the work or the scope of the work requires you to maintain existing highway facilities and the Claim arises from your failure to maintain. Your defense and indemnity obligation shall extend to Claims arising after the work is completed and accepted if the Claims are directly related to alleged acts or omissions by you that occurred during the course of the work. Any inspection of the work by the County is not a waiver of full compliance with these requirements.

Your obligation to defend and indemnify is not excused because of your inability to evaluate liability or because you evaluate liability and determine that you are not liable. You must respond within 30 days to the tender of any Claim for defense and indemnity by the County, unless this time has been extended by the County. If you fail to accept or reject a tender of defense and indemnity within 30 days, in addition to any other remedy authorized by law, the Department may withhold such funds the County reasonably considers necessary for its defense and indemnity until disposition has been made of the Claim or until the Contractor accepts or rejects the tender of defense, whichever occurs first.

With respect to third-party claims against you, you waive all rights of any type to express or implied indemnity against the County, its officients, officials, employees, volunteers, or agents (excluding agents who are design professionals).

Nothing in the Contract is intended to establish a standard of care owed to any member of the public or to extend to the public the status of a third-party beneficiary for any of these indemnification specifications.

7-1.05B Responsibility to Other Entities

You are responsible for any liability imposed by law and for injuries to or death of any person, including workers and the public, or damage to property. Indemnify and save harmless any county, city or district and its officers and employees connected with the work, within the limits of which county, city, or district the work is being performed, all in the same manner and to the same extent specified for the protection of the County.

7-1.05C Other

You are responsible to the fullest extent allowed by law, to defend and indemnify the County for any and all injury, illness, disease, or death arising out of or caused by an organism, including but not limited to animals, microscopic bacteria, fungi, plants and the like, to which persons, including but not limited to the public, any employees or agents of yours, the County, or any other contractors that are exposed in connection with the work on the project.

Add to:

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

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	Aggregate for	General	Umbrella or		
	occurrence ^a	products/completed operation	aggregateb	excess liability ^c		
≤ \$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		

^aCombined single limit for bodily injury and property damage.

^bThis limit must apply separately to your work under this Contract.

^cThe 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.

Do not require a small business subcontractor to carry liability insurance that exceeds the limits shown in the preceding table. For a small business subcontractor, interpret *Total Bid* in the table as the dollar amount of subcontracted work.

As used in section 7-1.06D(2), a small business:

1. For a non-federal-aid contract is defined in 2 CA Code of Regs § 1896 and is incorporated by this reference

2. For a federal-aid contract is defined in 13 CFR 121.201 and is incorporated by this reference"

The County, including its officers, officials, employees, volunteers and agents (excluding agents who are design professionals), 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 7-1.06D(3) Contractor's Insurance Policy Primary

7-1.06D(3) Contractor's Insurance Policy is Primary

The policy must stipulate that the insurance afforded the additional insureds applies as primary insurance. Any other insurance or self-insurance maintained by the County is excess only and must not be called upon to contribute with this insurance.

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

7-1.06F Policy Forms, Endorsements, and Certificates

<u>Unless otherwise specified in the special provisions or directed by the Engineer, provide General Liability</u> 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.

Replace 7-1.06G Deductibles

7-1.06G Deductibles

The County may expressly allow deductible clauses, which it does not consider excessive, overly broad, or harmful to the interests of the County. Regardless of the allowance of exclusions or deductions by the County, you are responsible for any deductible amount and must warrant that the coverage provided to the County complies with section 7-1.06.

Replace 7-1.06H Enforcement

7-1.06H Enforcement

The Department may assure your compliance with your insurance obligations. Ten days before an insurance policy lapses or is canceled during the Contract period you must submit to the Department evidence of renewal or replacement of the policy.

If you fail to maintain any required insurance coverage, the Department may maintain this coverage and withhold or charge the expense to you or terminate your control of the work.

You are not relieved of your duties and responsibilities to indemnify, defend, and hold harmless the County, its officers, officials, employees, volunteers, and agents by the Department's acceptance of insurance policies and certificates.

The minimum insurance coverage amounts do not relieve you for liability in excess of such coverage, nor do they preclude the County from taking other actions available to it, including the withholding of funds under this Contract.

Replace 7-1.06I Self-Insurance

7-1.06I Self-Insurance

Self-insurance programs and self-insured retentions in insurance policies are subject to separate annual review and approval by the County.

If you use a self-insurance program or self-insured retention, you must provide the County with the same protection from liability and defense of suits as would be afforded by first-dollar insurance. Execution of the Contract is your acknowledgment that you will be bound by all laws as if you were an insurer as defined under Ins Code § 23 and that the self-insurance program or self-insured retention shall operate as insurance as defined under Ins Code § 22.

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.

9 PAYMENT

This section shall not apply to Encroachment Permit work.

Comply with Section 9 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

Replace 9-1.16A General

9-1.16A General

Before the 15th day of each month, submit an estimate showing the value of:

- 1. Total work completed during the pay period
- 2. Copies of paid invoices for materials on hand
- 3. Deductions
- 4. Withholds
- 5. Retention
- 6. Resolved potential claim
- 7. Payment adjustments
- 8. Change orders

Submit certification stating the work complies with the QC procedures. The Engineer does not process a progress estimate without a signed certification.

Allow 10 days for review. The County rejects a submittal if it has any error or any omission.

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 for 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 Division of Accounting, Office of External Accounts Payable.

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.

SECTION 10

Comply with Section 10 of the Caltrans Standard Specifications and Revised Standard Specifications.

SECTION 11

Comply with Section 11 of the Caltrans Standard Specifications and Revised Standard Specifications.

SECTIONS 12 AND 13

Comply with Sections 12 and 13 of the Caltrans Standard Specifications and Revised Standard Specifications.

SECTION 14

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

SECTION 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.

SECTIONS 16 THROUGH 38

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

SECTIONS 40 THROUGH 65

Comply with Sections 40 through 65 of the Caltrans Standard Specifications and Revised Standard Specifications.

SECTION 66

Comply with Section 66 of the Caltrans Standard Specifications and Revised Standard Specifications, except:

Add to

66-1.02A General

Unless otherwise authorized by the Department, do not use corrugated aluminum materials within roadway prism.

SECTIONS 67 THROUGH 72

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

SECTION 73

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

Replace 73-1.03A General

73-1.03A General

Construct contraction joints by (1) scoring concrete with a grooving tool and rounding corners with an edger tool or (2) saw cutting hardened concrete to a depth of at least 1 inch. Immediately apply curing compound to the exposed surfaces of saw cut joints.

Construct expansion joints at each side of structures and at the ends of curb returns. Fill expansion joints with 1/2-inch-thick preformed joint filler. Finish the concrete adjacent to expansion joints with an edger tool. Do not construct expansion joints within 20 feet of an island nose. Shape the preformed joint filler to match the surface contour of the concrete.

SECTIONS 74 THROUGH 99

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

STANDARD DETAILS

DRAWING NUMBER

DESCRIPTION

STREETS, ROADS, INTERSECTION, TRANSITIONS, IMPROVEMENTS, & WORK WITHIN RIGHT OF WAY

A-100	TYPICAL STREET CROSS SECTION
A-101	GRADED ROAD
A-102	PAVED ROAD (RURAL AREAS)
A-103	CUL-DE-SAC
A-104	ALLEY
A-105IN	TERSECTION DESIGN – SIDEWALK ABUTTING CURB
A-106	
A-107	
A-108	ASPHALT CONCRETE DIKE (6")
A-109	ASPHALT CONCRETE DIKE (8")
A-110	CURB & GUTTER TRANSITION DETAIL
A-111	SIDEWALK SEPARATED FROM CURB
A-112	SIDEWALK ABUTTING CURB
A-113	RESIDENTIAL DRIVEWAY WITH CURB
A-114	RESIDENTIAL DRIVEWAY TEMPORARY SINGLE
A-115	RESIDENTIAL DRIVEWAY TEMPORARY MULTIPLE
A-116	
A-117	
A-118	CATTLE GUARD DETAILS & NOTES
A-119	STANDARD UTILITY BURIAL
A-120	
A-121	CURB RAMP – TWO RAMP CORNER INSTALLATION
A-122	CURB RAMP – ONE RAMP INSTALLATION – SIDEWALK SEPARATED FROM CURB

DESCRIPTION

DRAWING NUMBER

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
DRAIN	AGE 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-2

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
LIGHTIN	IG 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	
W-102	
W-103	
W-104	[RESERVED]
W-105	6" DOMESTIC METER SERVICE
W-106	[RESERVED]
W-107	
W-108	[RESERVED]
W-109	
W-110	[RESERVED]
W-111	YARD HYDRANT DETAIL
W-112	REDUCER THRUST BLOCK DETAIL
W-113	CONCRETE THRUST BLOCK DETAIL
W-114	TRENCH DETAIL

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	
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	
S-101	SEWER MANHOLE BASE
S-102	MANHOLE PIPE CONNECTIONS
S-103	MANHOLE MISCELLANEOUS DETAILS
S-104	EXISTING MANHOLE ABANDONMENT

SECTION A

GENERAL ROAD WORK



	А	В	С	D
SECONDARY HIGHWAY	80	40	10	30
COLLECTOR STREET	66	33	11	22
LOCAL STREET	60	30	10	20

NOTES:

- 1. WHEN AN OFFSET CROWN IS USED, THE ENGINEER SHALL ESTABLISH GRADES OF NOT LESS THAN 2% AND NO GREATER THAN 5%.
- 2. WHERE THERE IS NO CONCRETE CURB AND GUTTER AT THE EDGE OF THE PAVEMENT A SIX (6) INCH CHOKER WILL BE REQUIRED.
- 3. FINAL A.C. PAVEMENT THICKNESS SHALL BE A MINIMUM OF 3", CLASS 2 AGGREGATE BASE THICKNESS SHALL BE A MINIMUM OF 6". THINNER A.C. AND BASE MAY BE USED IF SUPPORTED BY SOIL TESTING DATA.
- 4. SUBGRADE UNDER STREET AND CURB AND GUTTER AREAS SHALL BE OVEREXCAVATED 12" AND RECOMPACTED TO 95% RELATIVE COMPACTION.

INYO COUNTY PUBLIC WORKS DEPT. DATE: SEPT 2015 DRAWN BY: TD 'lı£ CLINT QUILTER APPROVED BY: JA Director

TYPICAL STREET CROSS SECTION



TYPICAL SECTION

NOTES:

- 1. APPROVED IMPORTED MATERIAL TO BE PLACED WHERE NECESSARY TO PROVIDE FOR STABILITY OF ROADS AS SHOWN ON PLANS.
- 2. DRAINAGE IMPROVEMENTS TO BE PLACED AS SHOWN ON PLANS.
- 3. EMBANKMENTS SHALL HAVE RELATIVE DENSITY AT LEAST EQUAL TO ADJACENT NATIVE SOIL AND PROVIDE ACCEPTABLE ROADWAY STABILITY.
- 4. CONSTRUCTION OUTSIDE R/W LINE SHALL REQUIRE SLOPE EASEMENTS FROM AFFECTED PROPERTY OWNERS.

INYO COUN	TY PUBLIC WORKS DEPT.
DATE: SEPT 2015	1
DRAWN BY: TD	Chat & Oron
APPROVED BY: JA	CLINT QUILTER - Director

GRADED ROAD



TYPICAL SECTION

NOTES:

- 1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOILS TESTS AND SO INDICATED ON CONSTRUCTION PLANS.
- 2. CONSTRUCTION OUTSIDE R/W LINE SHALL REQUIRE SLOPE EASEMENTS.
- 3. SLOPE REQUIREMENT MAY BE VARIED BY SUBMISSION OF SOILS REPORT.
- 4. DIKES MAY BE REQUIRED ON ONE OR BOTH ROADWAY EDGED, DEPENDING ON LOCAL CONDITIONS.
- 5. REQUIRED PAVING WIDTH MAY VARY DEPENDING ON LOCATION

"A"	"B"	"B1"	"C"	"D"	"D1"	"E"	"E1"	"F"	"F1"
60'	30'		18'(20')	12'(10')		6'(5')	6'(5')	4'	8'(6')
40'	18'	22'	13'	5'	9'	6'	3'	4'	1'

INYO COUN	ΤY	PUBLIC	WORKS	DEPT.
DATE: SEPT 2015		7, 10	\bigcirc	

CLINT QUILTER - Director

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DRAWN BY: TD

APPROVED BY: JA

A-102





















NOTES:

- 1. SIDEWALK SHALL BE CONSTRUCTED OF CLASS "B" (5 1/2 SACK) CONCRETE.
- 2. SIDEWALK SHALL BE CONSTRUCTED FROM R/W LINE TO CURB IN COMMERCIAL ZONES AND WHEN ADJACENT TO SCHOOL PROPERTY.
- 3. SEE STD. A-105 FOR SIDEWALK PLAN VIEW.
- 4. SHOULD "R" VALUE OF PARKWAY BE LESS THAN 30, 4" OF THE BASE MATERIAL USED IN THE DESIGN OF ROADWAY SHALL BE INSTALLED UNDER SIDEWALK AND CURB AND GUTTER.
- 5. ALL EXPOSED SIDEWALK SURFACES SHALL HAVE A LIGHT BROOM FINISH, WITH THE DIRECTION OF BROOMING TRANSVERSE TO THE DIRECTION OF TRAVEL.
- 6. DEEP TOOL JOINT OR SAW CUT AT 10 FOOT INTERVALS, EXPANSION JOINTS SHALL BE INSTALLED AT 60 FOOT INTERVALS.

INYO COUNTY PUBLIC WORKS DEPT.		
DATE: SEPT 2015 DRAWN BY: TD	SIDEWALK ABUTTING CURB	A-112
APPROVED BY: JA CLINT QUILTER - Director		









6. THE DISTANCE BETWEEN A CURB RETURN POINT AND APPROACH SHALL BE 5' MINIMUM.

7. APPLY BROOM FINISH ON ALL APPROACH SURFACES.

INYO COUNTY PUBLIC WORKS DEPT.

DATE: SEPT 2015 DRAWN BY: TD

APPROVED BY: JA CLINT QUILTER - Director

COMMERCIAL DRIVEWAY







INYO COUNTY PUBLIC WORKS DEPT. DATE: SEPT 2015 DRAWN BY: TD APPROVED BY: JA CLINT QUILTER - Director	[RESERVED]	A-120






















INYO COUNTY PUBLIC WORKS DEPT.

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APPROVED BY: JA CLINT QUILTER - Director

DRAWN BY: TD

DETECTABLE SURFACE DETAIL

SECTION D

DRAINAGE IMPROVEMENTS





















CATCH BASIN NOTES:

- 1. CONCRETE CATCH BASIN SHALL BE CONSTRUCTED OF CLASS A CONCRETE.
- 2. REINFORCING STEEL BARS SHALL BE #4 DEFORMED BARS. ALL TRANSVERSE STEEL IN THE TOP OF THE SLAB SHALL BE 1" CLEAR OF THE BOTTOM OF THE CONCRETE, WITH HOOK AS SHOWN ON THE CURB SIDE AND BENT DOWN INTO BACK WALL OF CATCH BASIN. WHEN "V" AND "X" EXCEEDS 7', SEE CONSTRUCTION PLANS FOR BAR SIZES AND PLACEMENT.
- 3. PLACE MANHOLE OVER PIPE OUTLET AREA.
- 4. WHEN "V" IS 6'-6" OR LESS, "X" IS UNLIMITED. FOR "V" GREATER THAN 5'-6" STRUCTURAL DESIGN SHALL BE SUBMITTED BY ENGINEER.
- 5. IF "V" EXCEEDS 4', CAST $\frac{5}{8}$ " ROUND GALVANIZED STEPS IN THE WALL 15" APART AS SHOWN.
- 6. WHEN LENGTH OF OPENING EXCEEDS 7', SUPPORT BOLTS SHALL BE INSTALLED AND SHALL BE SPACED AT NOT MORE THAN 7' O.C. AND NOT LESS THEN 4' O.C.

INYO COUNTY PUBLIC WORKS DEPT.

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APPROVED BY: JA CLINT QUILTER - Director

DATE: SEPT 2015

DRAWN BY: TD

CATCH BASIN - NOTES

D-109A







SECTION RS

ROAD SIGN AND MARKERS



- 2. BRACKET ASSEMBLY: THE POST CAP, SHALL BE MADE TO MOUNT TO A 2⁴/₈" O.D. THIN WALL GALVANIZED PIPE. A HAWKINS CO. V14-PL107 POST CAP AND HAWKINS CO. V14F(S)-PL105-90 CROSS PIECE OR APPROVED EQUIVALENT SHALL BE USED.
- 3. MATERIALS: SIGNS SHALL BE 6" BY VARY LENGTH, 0.125 GA. ALUMINUM PLATE WITH GREEN ENGINEER GRADE REFLECTIVE SHEETING APPLIED TO BOTH SIDES.
- 4. FINISH: SIGN FACES SHALL BE SCOTCHLITE REFLECTIVE SHEETING OR APPROVED EQUIVALENT. THE TRANSPARENT SCREEN PROCESS COLOR SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER.
- 5. LETTERING: STREET NAME LEGEND LETTERING SHALL BE 4" HIGH AND ABBREVIATIONS 2" OR $2\frac{1}{2}$ " HIGH. EACH NAME SHALL BE INDIVIDUALLY LAID OUT TO FIT EITHER A 24" OR 30" SPACE. THE LETTERING SHALL BE OF THE ROUNDED TYPE STYLE CONFORMING WITH THE STANDARD ALPHABET FOR HIGHWAY SIGNS DESIGNED BY THE U.S. PUBLIC ROADS ADMINISTRATION.
- 6. OTHER: LAMP POLE MOUNTED BRACKETS MAY BE USED AS APPROVED IN PLANS. USE HAWKINS CO. V14-PL-WB OR APPROVED EQUIVALENT. USE STAINLESS STEEL STRAPPING CLAMPS TO ATTACH BRACKET TO LAMP POLE.

INYO	COUNTY	PUBLIC	WORKS	DEPT.
DATE: SE	PT 2015	2		

- Director

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CLINT QUILTER

DRAWN BY: TD

PPROVED BY: JA

STREET NAME SIGN DETAILS & SPECIFICATIONS

RS-100





WIDTH OF TRAVELED WAY	NUMBER OF EIGHT FOOT SECTIONS	TOTAL LENGTH OF PANELS
20' ALLEY; 24'	2	18'-0"
36'	4	34'-0"
44'	5	42'-0"
64'	7	58'-0"
DESERT ROAD	VARIES	VARIES

NOTES:

- 1. USE CHAMFERED 6"x6" S4S POSTS. ALL LUMBER BELOW GROUND LEVEL SHALL BE PRESSURE TREATED FIR OR HEART REDWOOD. TWO CROSS PLANKS SHALL BE 2"x6" CONSTRUCTION GRADE FIR.
- 2. BARRICADE MATERIALS AND N-2 REFLECTOR SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS 57-2 AND CA MUTCD 2014.
- 3. ALL EXPOSED WOOD SURFACES SHALL BE GIVEN 3 BRUSH COATS OF EXTERIOR WHITE PAINT, CONSISTING OF ONE APPLICATION OF PRIMER AND 2 FINISH COATS. PAINTING WILL CONFORM WITH CALTRANS STANDARD SPECIFICATIONS 59-4 AND 91-3.
- 4. USE $\frac{3}{8}$ " CARRIAGE BOLTS, CUT WASHERS AND NUTS TO ATTACH CROSS PLANKS TO POSTS.

INYO COUNTY PUBLIC WORKS DEPT.		
DATE: SEPT 2015	TIMBER BARRICADE	RS-102
DRAWN BY: TD		102
APPROVED BY: JA CLINT QUILTER - Director		



ĺπ DRAWN BY: TD CLINT QUILTER - Director APPROVED BY: JA

OBJECT MARKERS

SECTION ES

LIGHTNING AND ELECTRICAL SYSTEMS





STREET CLASSIFICATION	ST. TYPE & R/W WIDTH	TYPE STREET LIGHT	NORMAL MOUNTING HEIGHT	HIGH PRESSURE SODIUM LAMP WATTAGE	AVERAGE MAINTAINED FOOT-CANDLE		FRONT LOT OFF CING DE ONLY)
ARTERIAL	80'	15	30'	150W	.40	220'	250'
						SPACING (E	BOTH SIDES)
COLLECTOR	66'	15	30'	150W	.29	18	80 '
INDUSTRIAL COMMERCIAL	60'	15	30'	150W	.26	22	20'
LOCAL STREET	50'	15, B	30', 20'	150W, 100W	.14	220',	200'
CUL-DE-SAC	60'	15, B	30', 20'	150W, 100W	.12	24	10'

NOTES:

- 1. LAMP WATTAGE SHOWN IS FOR HIGH PRESSURE SODIUM LAMP ONLY. DESIGN CRITERIA MUST BE SUBMITTED FOR ALL OTHER LAMPS.
- 2. SPACING MAY BE ADJUSTED $\pm 10\%$ TO ALLOW FOR DRIVEWAYS.
- 3. POLE HUNG LIGHT STANDARDS MAY BE USED AS APPROVED IN PLANS.
- 4. THERE SHALL BE PROVIDED AND MAINTAINED AT LEAST 0.2 FOOT-CANDLES OF ILLUMINATION ON THE AREA NORMALLY BOUNDED BY THE CROSSWALKS AT INTERSECTIONS.

DATE: SEPT 2015	INYO COUN	TY PUBLIC WORKS DE	PT.
	DATE: SEPT 2015	1 10 1	

APPROVED BY: JA CLINT QUILTER - Director

STREET LIGHTING POLES & DESIGN CRITERIA



SECTION W

WATER SYSTEMS








INYO COUNTY PUBLIC WORKS DEPT. DATE: SEPT 2015 DRAWN BY: TD APPROVED BY: JA CLINT QUILTER - Director	[RESERVED]	W-104

NOTES:



INYO COUNTY PUBLIC WORKS DEPT.

CLINT QUILTER

Director

DATE: SEPT 2015

DRAWN BY: TD APPROVED BY: JA **6" DOMESTIC METER SERVICE**

W - 105

INYO COUNTY PUBLIC WORKS DEPT. DATE: SEPT 2015 DRAWN BY: TD APPROVED BY: JA CLINT QUILTER - Director	[RESERVED]	W-106



INYO COUNTY PUBLIC WORKS DEPT.		
DATE: SEPT 2015 DRAWN BY: TD APPROVED BY: JA CLINT QUILTER - Director	[RESERVED]	W-108



INYO COUNTY PUBLIC WORKS DEPT. DATE: SEPT 2015 DRAWN BY: TD APPROVED BY: JA CLINT QUILTER - Director	[RESERVED]	W-110





CONCRETE THRUST BLOCK FIRM UNDISTURBED SOIL BEARING SURFACE BEARING SURFACE Δ FIRM ₫/ UNDISTURBED SOIL BEND DEAD END FIRM UNDISTURBED SOIL BEDDING BEARING MATERIAL SURFACE FIRM UNDISTURBED BEARING SOIL SURFACE ╤╙╝╤╤╙╝╤╤╙╝╤╤╙╝╤ TEE/CLAMP/WELD/NIPPLE TYPICAL CROSS SECTION Table I Table II *** **** MINIMUM BEARING SURFACE AREA (FT.²) FACTORS FOR SOIL TYPE MAX. ALLOWABLE INCREASING BENDS TEE, CLAMP. SOIL BEARING AREAS IN SIZE GATE VALUES TABLE I WELD NIPPLE OF 11.25 22.5 45° 90 VALVES PIPE OR DEAD END LOOSE SAND 500 PSF 4 SOFT SANDY CLAY 1000 PSF 2 4" 1 2 2 1 1 1000 PSF ADOBE 2 6" 1 2 3 4 3 COMPACT FINE SAND 2000 PSF 1 2 8 5 8' 1 4 COMPACT COARSE SAND 2000 PSF 1 9 12" 3 5 16 12 MEDIUM STIFF CLAY 2000 PSF 1 29 4 8 16 21 16" 13 45 32 20" 7 25 ** THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SAFE SOIL BEARING VALUES AND THE POSITION AND SIZE OF BEARING AREAS. **** BASED ON 2 FEET MINIMUM DEPTH OF COVER OVER THE NOTES: PIPE. ALL FITTINGS SUBJECTED TO AN UNBALANCED HYDROSTATIC FORCE SHALL BE RESTRAINED 1. WITH 3000 PSI CONCRETE THRUST BLOCKS BEARING AGAINST FIRM UNDISTURBED SOIL. 2. BEARING VALUES SHOWN IN TABLE II ARE BASED ON 200 PSI INTERNAL PIPE PRESSURE AND DO NOT CONSIDER THE EFFECT OF RESTRAINED OR HARNESSED JOINTS. 3. ENSURE ALL NUTS AND BOLTS ARE CLEAR OF CONCRETE AND OPERABLE. INYO COUNTY PUBLIC WORKS DEPT. 113 DATE: SEPT 2015 CONCRETE THRUST BLOCK DETAIL W-DRAWN BY: TD CLINT QUILTER APPROVED BY: JA Director

TRENCH



4











T

Director

CLINT QUILTER

APPROVED BY: JA

-119

WATER, RECYCLED WATER, AND SEWER MAIN PARALLEL SEPARATIONS

NOTES:

- 1. ZONES IDENTICAL ON EITHER SIDE OF CENTERLINE AS SHOWN BELOW.
- 2. REQUIREMENTS OF THE STATE OF CALIFORNIA, HEALTH AND WELFARE AGENCY, DEPARTMENT OF HEALTH SERVICES.
- 3. SEE W-121 FOR NOTES ON WATER, RECYCLED WATER, AND SEWER MAIN PARALLEL AND PERPENDICULAR SEPARATIONS.



WATER, RECYCLED WATER, AND SEWER MAIN PARALLEL AND PERPENDICULAR SEPARATION

CONSTRUCTION REQUIREMENTS FOR WATER, RECYCLED WATER, AND SEWER MAINS

CASE 1: NEW RECYCLED WATER OR SEWER MAINS

ZONE:

- A. SPECIAL PERMISSION REQUIRED. DO NOT LOCATE ANY PARALLEL SEWER OR RECYCLED WATER MAINS IN THIS AREA WITHOUT COUNTY AND STATE HEALTH DEPARTMENT APPROVAL.
- B. PVC SEWER PIPE WITH PUSH-ON TYPE RUBBER RING JOINTS FOR SEWER MAINS C-900, CL305, OR C-905, CL235 PVC PIPE WITH PUSH ON TYPE RUBBER RING JOINTS FOR RECYCLED WATER MAINS.
- P. PROHIBITED ZONE; NO SEWER, WATER, OR RECYCLED WATER MAINS; SECTION 64630 (e)
 (2) CALIFORNIA ADMINISTRATIVE CODE, TITLE 22.

CASE 2: NEW RECYCLED WATER OR RECYCLED WATER MAINS

ZONE:

- A. SPECIAL PERMISSION REQUIRED. DO NOT LOCATE ANY PARALLEL SEWER OR RECYCLED WATER MAINS IN THIS AREA WITHOUT COUNTY AND STATE HEALTH DEPARTMENT APPROVAL.
- B. C-900,CL305 OR C-905,CL235 PVC PIPE WITH PUSH ON TYPE RUBBER RING JOINTS FOR WATER MAINS C-900,CL305 OR C-905,CL235 PVC PIPE WITH PUSH ON TYPE RUBBER RING JOINTS FOR RECYCLED WATER MAINS.
- P. PROHIBITED ZONE; NO SEWER, WATER, OR RECYCLED WATER MAINS; SECTION 64630 (e)
 (2) CALIFORNIA ADMINISTRATIVE CODE, TITLE 22.

INYO COUNTY PUBLIC WORKS DEPT.

CLINT QUILTER

Director

<u>LA</u>

DATE: SEPT 2015

DRAWN BY: TD

APPROVED BY: JA

WATER, RECYCLED WATER, AND SEWER MAIN PARALLEL AND PERPENDICULAR SEPARATION NOTES

W-121

INYO COUNTY PUBLIC WORKS DEPT. DATE: SEPT 2015 DRAWN BY: TD APPROVED BY: JA CLINT QUILTER - Director	[RESERVED]	W-122







INYO COUNTY PUBLIC WORKS DEPT. DATE: SEPT 2015 DRAWN BY: TD APPROVED BY: JA CLINT QUILTER – Director	[RESERVED]	W-126



ALLOWABLE LEAKAGE CHART FOR TESTING OF PVC, STEEL, AND DI PIPE WITH RUBBER JOINTS

PIPE		L	ENGTH	H IN M	IETERS	(FEE	T) CAL	CULA	TED AS	DESC	RIBED	ΙΝ ΝΟΊ	TE 4 B	ELOW			
SIZE mm(in)	 	 									609.60 (2000)						
					0.529 0.142			0.793 0.213		1.322 0.355			2.643 0.710	3.084 0.829	3.524 0.947	3.965 1.065	4.405 1.184
200mm (8")					0.705 0.189					1.762 0.473		2.937 0.789		4.112 1.105	4.699 1.263	5.286 1.420	5.874 1.578
250mm (10")					0.881 0.237			1.322 0.355	1.468 0.395	2.203 0.592		3.761 0.986	4.405 1.184	5.140 1.381	5.874 1.578	6.608 1.776	7.342 1.973
300mm (12")					1.057 0.284			1.586 0.426		2.643 0.710	3.524 0.947	4.405 1.184	5.286 1.420	6.167 1.657	7.049 1.894	7.930 2.131	8.811 2.367
400mm (16")					1.410 0.379					3.524 0.947	4.669 1.263	5.874 1.578	7.049 1.894	8.223 2.210	9.398 2.525	10.573 2.841	11.748 3.157
450mm (18")					1.586 0.426					3.695 1.065	5.286 1.420	6.608 1.776	7.930 2.131	9.250 2.486	10.573 2.841	11.894 3.196	13.216 3.551
500mm (20")					1.762 0.473			2.643 0.710		4.405 1.184	5.874 1.578	7.342 1.973	8.811 2.367	10.279 2.762	11.748 3.157	13.216 3.551	14.684 3.946
600mm (24")					2.115 0.568					5.286 1.420	7.049 1.894	8.811 2.367	10.573 2.841	12.335 3.314	14.097 3.788	15.859 4.261	17.621 4.735

ALLOWABLE LEAKAGE RESULTS IN CHART ARE GIVEN IN LITERS AND GALLONS =

NOTES:

DRAWN BY: TD

APPROVED BY: JA

- 1. REFER TO SECTION 15044 OF THE SPECIFICATIONS.
- 2. HYDROSTATIC TEST PRESSURE SHALL BE AS INDICATED IN SECTION 15044..
- 3. ALLOWABLE LEAKAGE FOR STEEL (FLANGED OR WELDED) AND DUCTILE IRON (FLANGED) PIPE SHALL BE ZERO.
- 4. THE FOLLOWING FORMULA SHALL BE USED TO CALCULATE THE ALLOWED LOSS:

Director

0.4625 LITERS x NOMINAL DIAMETER OF PIPE (mm) x LENGTH OF PIPE (m) 24 (HOURS) x 1000 (m)

5 GALLONS x NOMINAL DIAMETER OF PIPE (INCH) x LENGTH OF PIPE (FT) 24 (HOURS) x 5,280 (FT)

INYO COUNTY PUBLIC WORKS DEPT.

CLINT QUILTER

ALLOWABLE LEAKAGE CHART FOR TESTING OF PIPES WITH RUBBER JOINTS

W-

SECTION S

SEWER SYSTEMS



NOTES:

APPROVED BY: JA

- 1. REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
- 2. VERTICAL WALL OF CONE TO BE ON THE UPSTREAM SIDE OF MANHOLE SEE S-103 FOR ACCESS LOCATIONS
- 3. FOR MANHOLE BASES SEE STD. S-101

CLINT QUILTER - Director

ITEM NO (1) (2) (3) (4) (5) (6)	SIZE AND DESCRIPTION 24" MANHOLE FRAME AND TWO CONCENTRIC COVERS 24" DIA GRADE RING(S) 6" TO 18" HIGH ECCENTRIC CONE SEE NOTE 2 48" DIA RING(S) VARIABLE HEIGHT WATER TIGHT JOINTS SEE STD. S-103 SEWER MAIN	ITEM NO (7) (8) (9) (1) (1)	SIZE AND DESCRIPTION MANHOLE PIPE CONNECTOR SEE STD. S- FIELD INSTALLED INVERT SEE STD. S-102 CONCRETE BASE, PRECAST OR CAST IN PLACE 6" OF $\frac{3}{4}$ " CRUSHED ROCK MANHOLE DETAIL SEE STD. S-103	
INYO C DATE: SEPT DRAWN BY		48"	DIAMETER PRECAST MANHOLE	S-100









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 encroachm	ent 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'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 O	rder # Checked by:
Schedul	e: Date:
A. PRE	PARATION 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. IND	EX AND VICINITY MAP
1.	Shown on first sheet
2.	Street names shown thereon
3.	Flow diagram with drainage arrows
4.	Show tie to nearly 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. TITI	LE 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. PLA	N 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

Identify pavement transition dimensions (2' minimum)Feather over a minimum of two feet when meeting existing pavement

- <u>_____</u> 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 ¹/₄ 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 ross gutter shall be 0.30 feet
- _____ 23. Profile to be shown of graded or improved drainage facilities

TRANSMITTALS

Returned to Engineer		
Date	Ву	

Received from Engineer		
Date	By	

_

NOTES:

APPENDIX C

INYO COUNTY PERMIT FEE SCHEDULE

INYO COUNTY PUBLIC WORKS DEPARTMENT PERMIT FEES

TRENCHING

Trenching across street: 0-50 feet 51-100 feet Over 100 feet

\$50.00 \$1.00 per foot \$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

TRANSPORTATION PERMITS: \$16.00

TREE REMOVAL ON COUNTY RIGHT-OF-WAY

By licensed contractor only	\$5.00
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