

ELEMENT 5 - DESIGN AND PERFORMANCE PROVISIONS

The standards and specifications for new construction and repair of the existing sanitary sewer system described in this SSMP Element are utilized to ensure a high quality, well designed, and functioning sanitary sewer system.

5.1 Regulatory Requirements

WDR Order No. 2006-0003-DWQ Section D.13(v) states that the SSMP must identify:

- (a) Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- (b) Procedures and standards for inspection and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

5.2 Design and Construction Standards and Specifications [WDR D.13(v)(a)]

The City of Pacific Grove contracts design services to Neill Engineers Corp. as described in the contract provided in Appendix 5A. Currently, Neill Engineers Corp. creates design and construction standards and specifications specific to the projects the City undertakes, such as the individual standards and specifications created and utilized for the City's CIPs Phases 1 through 6. Additionally, the City's Municipal Code Section 9.20.010: Definitions provides a sizing specification for sewer mains in the definition for "sewer" or "sewer main", which states, "No sewer main constructed henceforth shall be less than eight inches in diameter nor be laid or constructed in any city street, easement or right-of-way or street, easement or right-of-way under the control of the city, except to the lines, grades, and specifications approved by the proper city authority."

The City has the following Standard Details for Street Improvements:

- 200: Standard Manhole
- 201A: Concrete Internal Drop Manhole
- 201B: Concrete External Drop Manhole
- 202: Manhole Frame and Cover
- 203: Clean – Out
- 204: Wye and Laterals
- 205: Pipe Subgrade for Sewer and Storm Drain
- 206: Concrete Support for Undercut Pipe
- 207: Trench Section and Pavement Replacement
- 208: Sanitary Sewer Spot Repair

The City's Standard Details for Street Improvements are included in Appendix 5B and are available on the City's website at: <http://www.ci.pg.ca.us/index.aspx?page=310>.

Some design specifications for laterals are given in the City's Municipal Code Section 9.20.030: Sewer laterals, cleanouts, and connections, including the following requirements:

- Installation of separate lateral connections for each property.
- Installation and maintenance of an approved cleanout and overflow device.
- Installation of a backflow valve.

The City's Municipal Code Section 9.20.040: Inspections and repairs of sewer laterals, provides the requirement to repair or replace laterals the City deems as defective at the expense of the property owner. The City's Municipal Code Sections 9.20.010, 9.20.030, and 9.20.040 are described and included in SSMP Element 3 – Legal Authority.

The City should formalize and standardize a complete set of design and construction standards and specifications, which can be utilized and referenced in all of their projects. As required by the WDR, these standards and specifications must include the:

- Installation of new sanitary sewer systems;
- Installation of pump stations and other appurtenances; and
- Rehabilitation and repair of existing sanitary sewer systems.

Furthermore, it is recommended that the City's design and construction standards include:

- California Department of Public Health's standards for separation requirements for water and sewer lines by creating a standard or including the California Department of Public Health's standard in its entirety;
- Specifications for maximum manhole spacing
- Specifications for gravity sewer pipe sizing;
- Velocity criteria; and
- Pipe material requirements.

The City plans to develop or incorporate by reference a complete set of design and construction standards and specifications by the end of 2014. The City's Community Development/Public Works Director will review and update these standards and specifications annually and as changes occur.

5.3 Inspection and Testing Procedures and Standards [WDR D.13(v)(b)]

The City has a contract for inspection services for its CIPs to the City of Seaside for fiscal years 2012-2013 and 2013-2014. The contract is included in Appendix 5C. The City of Pacific Grove does not have an established set of inspection standards and procedures, and needs to develop

or incorporate by reference a set of inspection procedures and standards, which can be part of the new design and construction standards and specifications described above in Section 5.2: Design and Construction Standards and Specifications [WDR D.13(v)(b)].

During the construction and repair of sewer facilities, the licensed contractor working on the project is responsible for testing the installed equipment or line(s). This requirement is established in each individual project's technical specifications. The City needs to develop or incorporate by reference a set of testing procedures and standards, which can be part of the new design and construction standards and specifications described above in Section 5.2: Design and Construction Standards and Specifications [WDR D.13(v)(b)].

The City plans to develop or incorporate by reference a set of inspection and testing procedures and standards for the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects by the end of 2014. The City's Community Development/Public Works Director will review and update these standards and specifications annually and as changes occur.

APPENDIX 5A

Contract with Neill Engineers Corp. for Design Services



**CITY OF PACIFIC GROVE AGREEMENT FOR PROFESSIONAL
SERVICES
(NOT TO EXCEED \$15,000)**

This Professional Services Agreement ("Agreement") is made by and between CITY of Pacific Grove, a political subdivision of the State of California (hereinafter "CITY") and Neill Engineers Corp (hereinafter "CONSULTANT").

In consideration of the mutual covenants and conditions set forth in this Agreement, the Parties agree as follows:

1. **SERVICES TO BE PROVIDED.** CITY hereby engages CONSULTANT to perform, and CONSULTANT hereby agrees to perform, the services described in **Item 4** in conformity with the terms of this Agreement. The services are generally described as follows: **General Engineering Planning Services.**
2. **PAYMENTS BY CITY.** CITY shall pay CONSULTANT in accordance with the payment provisions set forth in, subject to the limitations set forth in this Agreement. The total amount payable by CITY to CONSULTANT under this Agreement shall not exceed the sum of \$12,000 apportioned at \$1,000.00 per month due the 1st of each month.
3. **TERM OF AGREEMENT.** The term of this Agreement is from **July 1, 2008 to June 30, 2009, and shall be renewable by mutual written agreement for additional yearly increments**, unless sooner terminated pursuant to the terms of this Agreement. This Agreement is of no force or effect until signed by both CONSULTANT and CITY and with CITY signing last, and CONSULTANT may not commence work before CITY signs this Agreement.
4. **ADDITIONAL PROVISIONS.** The following provisions are incorporated herein by reference and constitute a part of this Agreement:

Scope of Service shall consist of providing the City of Pacific Grove, CA with general day to day engineering assistance as the City does not have a staff engineer. Scope of service does not include services such as preparation of plans or surveying.

5. PERFORMANCE STANDARDS.

5.01. CONSULTANT represents that CONSULTANT and CONSULTANT's agents, employees, and sub-consultants performing services under this Agreement are specially trained, experienced, competent, and appropriately licensed to perform the work and deliver the services required under this Agreement and are not employees of CITY, or immediate family of an employee of CITY.

5.02. CONSULTANT, its agents, employees, and sub-consultants shall perform all work in a safe and skillful manner exercised by professional consultants providing similar services under similar conditions in similar localities, within a similar timeframe and in compliance with all applicable laws and regulations. All work performed under this Agreement that is required by

law to be performed or supervised by licensed personnel shall be performed in accordance with such licensing requirements.

5.03. CONSULTANT shall furnish, at its own expense, all materials, equipment, and personnel necessary to carry out the terms of this Agreement, except as otherwise specified in this Agreement. CONSULTANT shall not use CITY premises, property (including equipment, instruments, or supplies) or personnel for any purpose other than in the performance of its obligations under this Agreement.

6. PAYMENT CONDITIONS.

6.01. CONSULTANT shall submit to the Contract Administrator an invoice on a form acceptable to CITY. If not otherwise specified, CONSULTANT may submit such invoice periodically or at the completion of services, but in any event, not later than 30 days after completion of services. The invoice shall set forth the amounts claimed by CONSULTANT for the previous period, together with an itemized basis for the amounts claimed, and such other information pertinent to the invoice as CITY may require. The Contract Administrator or his or her designee shall certify the invoice, either in the requested amount or in such other amount as CITY approves in conformity with this Agreement, and shall promptly submit such invoice to CITY Administrative Services Director for payment. CITY Administrative Services Director shall pay the amount certified within 30 days of receiving the certified invoice.

6.02. CONSULTANT shall not receive reimbursement for travel expenses unless set forth in this Agreement.

7. TERMINATION.

7.01. During the term of this Agreement, both CITY and CONSULTANT may terminate the Agreement for any reason by giving written notice of termination to the other party at least thirty (30) days prior to the effective date of termination. Such notice shall set forth the effective date of termination. In the event of such termination, the amount payable to CONSULTANT under this Agreement shall be reduced in proportion to the services provided prior to the date of termination.

7.02. CITY may cancel and terminate this Agreement for good cause effective immediately upon written notice to CONSULTANT. "Good cause" includes the failure of CONSULTANT to perform the required services at the time and in the manner provided under this Agreement. If CITY terminates this Agreement for good cause, CITY shall be relieved of the payment of any consideration to CONSULTANT, and CITY may proceed with the work in any manner which CITY deems proper. The cost to CITY shall be deducted from any sum due CONSULTANT under this Agreement.

7.03. This Agreement may be terminated by CONSULTANT for good cause upon seven (7) days written notice should CITY fail to perform in accordance with its terms through no fault of CONSULTANT. CITY shall pay CONSULTANT for all services performed in accordance with this Agreement up to and including the effective date of termination.

8. INDEMNIFICATION.

8.01 Consistent with California Civil Code Section 2782.8, when the services to be provided under this Agreement are design professional services to be performed by a design professional, as that term is defined under said section 2782.8, CONSULTANT shall, to the fullest extent permitted by law, indemnify, protect, defend and hold harmless CITY, and its employees, officials and agents (“Indemnified Parties”) for all claims, demands, costs or liability that arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of CONSULTANT, its officers, employees, agents, in said performance of professional services under this Agreement, excepting only liability arising from the sole negligence, active negligence or intentional misconduct of CITY.

8.02 Other than in the performance of professional services by a design professional, which shall be solely as addressed by subsection (a) above, and to the full extent permitted by law, CONSULTANT shall indemnify, defend and hold harmless CITY and any Indemnified Parties, from and against any liability, (including liability for claims, suits, actions, arbitration proceedings, administrative proceedings, regulatory proceedings, losses, expenses or costs of any kind, interest, defense costs, and expert witness fees), where same arises out of the performance of this Agreement by CONSULTANT, its officers, employees, agents, and sub-consultants, excepting only that resulting from the sole negligence, active negligence or intentional misconduct of CITY, its employees, officials, or agents.

9. INSURANCE.

9.01. Insurance Coverage Requirements: Without limiting CONSULTANT’s duty to indemnify, CONSULTANT shall maintain in effect throughout the term of this Agreement a policy or policies of insurance with the following minimum limits of liability:

Commercial general liability insurance, including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broadform Property Damage, Independent Consultants, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than \$1,000,000 per occurrence.

Exemption/Modification (Justification attached; subject to approval).

Business automobile liability insurance, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this Agreement, with a combined single limit for Bodily Injury and Property Damage of not less than \$500,000 per accident.

Exemption/Modification (Justification attached; subject to approval).

Workers' Compensation Insurance, if CONSULTANT employs others in the performance of this Agreement, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than \$1,000,000 each person, \$1,000,000 each accident and \$1,000,000 each disease.

Exemption/Modification (Justification attached; subject to approval).

Professional liability insurance, if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than \$1,000,000 per claim and \$2,000,000 in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, CONSULTANT shall, upon the expiration or earlier termination of this Agreement, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three years following the expiration or earlier termination of this Agreement.

Exemption/Modification (Justification attached; subject to approval).

9.02. Other Insurance Requirements. All insurance required by this Agreement shall be with a company acceptable to CITY and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this Agreement, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three years following the date CONSULTANT completes its performance of services under this Agreement.

Each liability policy shall provide that CITY shall be given notice in writing at least thirty days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof, except 10-day notice for nonpayment of the premium. Each policy shall provide coverage for CONSULTANT and additional insureds with respect to claims arising from each sub-consultant, if any, performing work under this Agreement, or be accompanied by a certificate of insurance from each sub-consultant showing each sub-consultant has identical insurance coverage to the above requirements.

Commercial general liability and automobile liability policies shall provide an endorsement naming CITY, its officers, agents, and employees as Additional Insureds with respect to liability arising out of CONSULTANT's work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self-insurance maintained by CITY and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by CONSULTANT's insurance. The required endorsement form for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000) or other endorsement approved by CITY's Risk Manager. The required endorsement form for Automobile Additional Insured endorsement is ISO Form CA 20 48 02 99 or other endorsement approved by CITY's Risk Manager.

Prior to the execution of this Agreement by CITY, CONSULTANT shall file certificates of insurance with CITY's contract administrator and CITY's Contracts/Purchasing Division, showing that CONSULTANT has in effect the insurance required by this Agreement. The CONSULTANT shall file a new or amended certificate of insurance within five calendar days after any change is made in any insurance policy which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this Agreement, which shall continue in full force and effect.

CONSULTANT shall at all times during the term of this Agreement maintain in force the insurance coverage required under this Agreement and shall send, without demand by CITY, annual certificates to CITY's Contract Administrator and CITY's Contracts/Purchasing Division. If the certificate is not received by the expiration date, CITY shall notify CONSULTANT and CONSULTANT shall have five calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by CONSULTANT to maintain such insurance is a default of this Agreement which entitles CITY, at its sole discretion, to terminate this Agreement immediately.

10. RECORDS AND CONFIDENTIALITY.

10.01. Confidentiality. CONSULTANT and its officers, employees, agents, and sub-consultants shall comply with any and all applicable federal, state, and local laws which provide for the confidentiality of records and other information. CONSULTANT shall not disclose any confidential records or other confidential information received from CITY or prepared in connection with the performance of this Agreement, unless CITY specifically permits CONSULTANT to disclose such records or information. CONSULTANT shall promptly transmit to CITY any and all requests for disclosure of any such confidential records or information. CONSULTANT shall not use any confidential information gained by CONSULTANT in the performance of this Agreement except for the sole purpose of carrying out CONSULTANT's obligations under this Agreement

10.02. CITY Records. When this Agreement expires or terminates, CONSULTANT shall return to CITY any CITY records which CONSULTANT used or received from CITY to perform services under this Agreement.

10.03. Maintenance of Records. CONSULTANT shall prepare, maintain, and preserve all reports and records that may be required by federal, state, and CITY rules and regulations related to services performed under this Agreement. CONSULTANT shall maintain such records for a period of at least three years after receipt of final payment under this Agreement. If any litigation, claim, negotiation, audit exception, or other action relating to this Agreement is pending at the end of the three year period, then CONSULTANT shall retain said records until such action is resolved.

10.04. Access to and Audit of Records. CITY shall have the right to examine, monitor and audit all records, documents, conditions, and activities of CONSULTANT and its sub-

consultants related to services provided under this Agreement during normal business hours and upon reasonable notice. Pursuant to Government Code section 8546.7, if this Agreement involves the expenditure of public funds in excess of \$10,000, the parties to this Agreement may be subject, at the request of CITY or as part of any audit of CITY, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this Agreement for a period of three years after final payment under the Agreement.

10.05. Ownership. CITY shall have a royalty-free, exclusive and irrevocable license to reproduce, publish, and use, and authorize others to do so, all original computer programs, writings, sound recordings, pictorial reproductions, drawings, and other works of similar nature produced in the course of or under this Agreement. CONSULTANT shall not publish any such material without the prior written approval of CITY. Any use of instruments of service produced by CONSULTANT under this Agreement for other projects without specific written authorization from CONSULTANT shall be at CITY's sole risk and without liability to CONSULTANT. CONSULTANT's authorization shall not be unreasonably withheld. Further, any and all liability arising out of changes made to, or reuse of, CONSULTANT's deliverables under this Agreement by CITY or persons other than CONSULTANT is waived as against CONSULTANT and CITY assumes full responsibility for such changes unless CITY has given CONSULTANT prior notice and has received from CONSULTANT written consent for such changes.

11. NON-DISCRIMINATION. During the performance of this Agreement, CONSULTANT, and its sub-consultants, shall not unlawfully discriminate against any person because of race, religious creed, color, sex, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age (over 40), or sexual orientation, either in CONSULTANT's employment practices or in the furnishing of services to recipients. CONSULTANT shall ensure that the evaluation and treatment of its employees and applicants for employment and all persons receiving and requesting services are free of such discrimination. CONSULTANT and any sub-consultant shall, in the performance of this Agreement, fully comply with all federal, state, and local laws and regulations which prohibit discrimination. The provision of services primarily or exclusively to such target population as may be designated in this Agreement shall not be deemed to be prohibited discrimination.

12. COMPLIANCE WITH TERMS OF STATE OR FEDERAL GRANT. If this Agreement has been or will be funded with monies received by CITY pursuant to a contract with the state or federal government in which CITY is the grantee, CONSULTANT shall comply with all the provisions of said contract, to the extent applicable to CONSULTANT as a subgrantee under said contract, and said provisions shall be deemed a part of this Agreement, as though fully set forth herein. Upon request, CITY will deliver a copy of said contract to CONSULTANT, at no cost to CONSULTANT.

13. INDEPENDENT CONSULTANT. In the performance of work, duties, and obligations under this Agreement, CONSULTANT is at all times acting and performing as an independent CONSULTANT and not as an employee of CITY. No offer or obligation of permanent employment with CITY or particular CITY department or agency is intended in any manner, and CONSULTANT shall not become entitled by virtue of this Agreement to receive from CITY any

form of employee benefits including but not limited to sick leave, vacation, retirement benefits, workers' compensation coverage, insurance or disability benefits. CONSULTANT shall be solely liable for and obligated to pay directly all applicable taxes, including federal and state income taxes and social security, arising out of CONSULTANT's performance of this Agreement. In connection therewith, CONSULTANT shall defend, indemnify, and hold CITY harmless from any and all liability which CITY may incur because of CONSULTANT's failure to pay such taxes.

14. **NOTICES.** Notices required under this Agreement shall be delivered personally or by first-class, postage pre-paid mail to CITY's and CONSULTANT's contract administrators at the addresses listed below:

FOR CITY:	FOR CONSULTANT:
Celia Perez Martinez	Sherman W. Low Name and Title
2100 Sunset Dr., Pacific Grove, CA 93950 Address	P. O. Box LL, Carmel, CA 93921 Address
831-648-5722 Phone	831-624-2110 Phone

15. **MISCELLANEOUS PROVISIONS.**

15.01. Conflict of Interest. CONSULTANT represents that it presently has no interest and agrees not to acquire any interest during the term of this Agreement which would directly or indirectly conflict in any manner or to any degree with the full and complete performance of the professional services required to be rendered under this Agreement.

15.02. Amendment. This Agreement may be amended or modified only by an instrument in writing signed by CITY and CONSULTANT.

15.03. Waiver. Any waiver of any terms and conditions of this Agreement must be in writing and signed by CITY and CONSULTANT. A waiver of any of the terms and conditions of this Agreement shall not be construed as a waiver of any other terms or conditions in this Agreement.

15.04. CONSULTANT. The term "CONSULTANT" as used in this Agreement includes CONSULTANT's officers, agents, and employees acting on CONSULTANT's behalf in the performance of this Agreement.

15.05. Disputes. CONSULTANT shall continue to perform under this Agreement during any dispute. CONSULTANT and CITY hereby agree to make good faith efforts to resolve disputes as quickly as possible. In the event any dispute arising from or related to this Agreement results in mediation, arbitration or litigation, the prevailing party shall be entitled to recover all reasonable costs incurred, including court costs, reasonable attorney fees, expenses for expert witnesses (whether or not called to testify), expenses for accountants or appraisers (whether or not called to testify), and other related expenses. Recovery of these expenses shall be as additional costs awarded to the prevailing party, and shall not require initiation of a separate legal proceeding.

15.06. Assignment and Subcontracting. The CONSULTANT shall not assign, sell, or otherwise transfer its interest or obligations in this Agreement without the prior written consent of CITY. None of the services covered by this Agreement shall be subcontracted without the prior written approval of CITY. Notwithstanding any such subcontract, CONSULTANT shall continue to be liable for the performance of all requirements of this Agreement.

15.07. Successors and Assigns. This Agreement and the rights, privileges, duties, and obligations of CITY and CONSULTANT under this Agreement, to the extent assignable or delegable, shall be binding upon and inure to the benefit of the parties and their respective successors, permitted assigns, and heirs.

15.08. Compliance with Applicable Law. The parties shall comply with all applicable federal, state, and local laws and regulations in performing this Agreement.

15.09. Headings. The headings are for convenience only and shall not be used to interpret the terms of this Agreement.

15.10. Time is of the Essence. Time is of the essence in each and all of the provisions of this Agreement. Consultant acknowledges that timely performance of service is an important element of this Agreement. Consultant shall put forth a best effort to complete services according to Exhibit <schedule Exhibit reference here>.

15.11. Governing Law. This Agreement shall be governed by and interpreted under the laws of the State of California. Venue shall be in Monterey County.

15.12. Non-exclusive Agreement. This Agreement is non-exclusive and both CITY and CONSULTANT expressly reserve the right to contract with other entities for the same or similar services.

15.13. Construction of Agreement. CITY and CONSULTANT agree that each party has fully participated in the review and revision of this Agreement and that any rule of construction to the effect that ambiguities are to be resolved against the drafting party shall not apply in the interpretation of this Agreement or any amendment to this Agreement.

15.14. Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same Agreement.

15.15. Authority. Any individual executing this Agreement on behalf of CITY or CONSULTANT represents and warrants hereby that he or she has the requisite authority to enter into this Agreement on behalf of such party and bind the party to the terms and conditions of this Agreement.

15.16. Integration. This Agreement, including the exhibits and any documents incorporated by reference, represent the entire Agreement between CITY and CONSULTANT with respect to the subject matter of this Agreement and shall supersede all prior negotiations, representations, or agreements, either written or oral, between CITY and CONSULTANT as of the effective date of this Agreement, which is the date that CITY signs the Agreement.

15.17. Interpretation of Conflicting Provisions. In the event of any conflict or inconsistency between the provisions of this Agreement and the Provisions of any exhibit or other attachment to this Agreement, the provisions of this Agreement shall prevail and control.

15.18 Severability. If any of the provisions contained in the Contract are held illegal, invalid, or unenforceable, the enforceability of the remaining provisions shall not be impaired thereby. Limitations of liability and indemnities shall survive termination of the Contract for any cause. If a part of this Contract is valid, all valid parts that are severable from the invalid part remain in effect. If a part of this Contract is invalid in one or more of its applications, the part remains in effect in all valid applications that are severable from the invalid applications.

This space is left blank, intentionally.

IN WITNESS WHEREOF, CITY and CONSULTANT have executed this Agreement as of the day and year written below.

CITY OF PACIFIC GROVE

By:



James J. Colangelo,
Purchasing Agent

Date:

8-29-08

By:



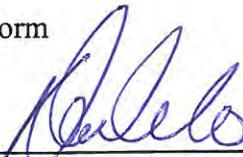
Celia Perez Martinez,
Project Manager

Date:

8/15/08

Approved as to Form

By:



David Laredo, CITY Attorney

Date:

8/29/08

CONSULTANT

By:

Neill Engineers Corp



(Signature of Chair, President, or
Vice-President)*

Sherman W. Low, Pres.

Name and Title

Date:

8/5/08

By:



(Signature of Secretary, Asst. Secretary, CFO, or
Asst. Treasurer)*

Gary White, Sec'y/Treas

Name and Title

Date:

8/5/08

*INSTRUCTIONS: If CONSULTANT is a corporation, including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers. If CONSULTANT is a partnership, the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership. If CONSULTANT is contracting in an individual capacity, the individual shall set forth the name of the business, if any, and shall personally sign the Agreement.

APPENDIX 5B

City of Pacific Grove Standard Details for Street Improvements



**CITY OF PACIFIC GROVE
Monterey County, California**

DEPARTMENT OF PUBLIC WORKS



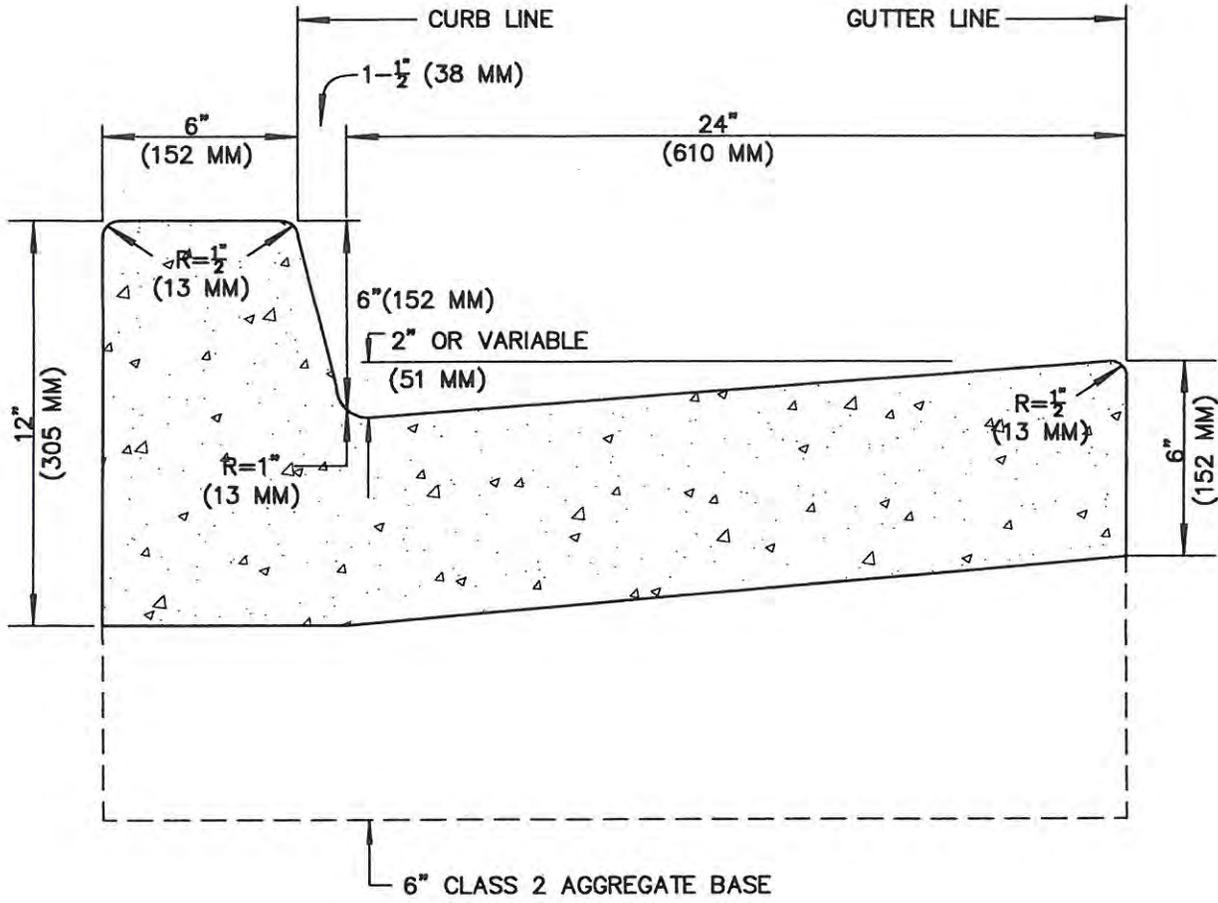
**STANDARD DETAILS
FOR
STREET IMPROVEMENTS**

NOVEMBER 2010

CITY OF PACIFIC GROVE
STANDARD DETAILS
FOR STREET IMPROVEMENTS

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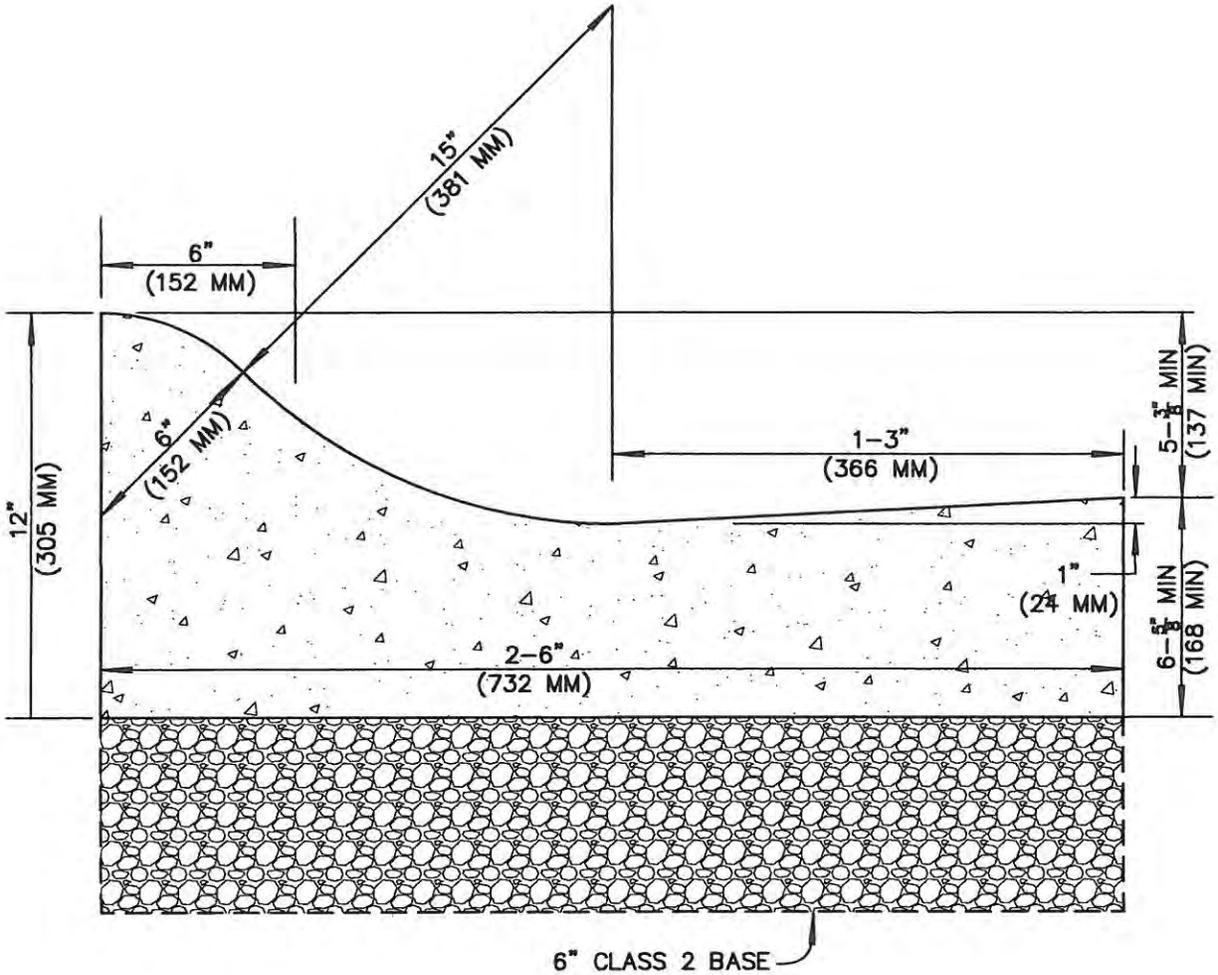
Standard Detail No.	Title Description
100	Curb and Gutter
100A	Rolled Curb and Gutter Section
101	Standard Driveway
102	Roll Curb Driveway
103	Up Hill Driveway
104	Down Hill Driveway
105	"J" Type Driveway Approach
106	Sidewalk
106A	Alternate Sidewalk (Concrete Pavers)
107	Sidewalk Underdrain
108	Curb Ramp
109	Open Cross Gutter
110	Removal of Concrete Curb and Sidewalk
111	Replacement of Concrete Sidewalk
112	Typical Street Sections
113	Crowns
114	Cul-De-Sac
115	Street Sign Locations
116	General Sign Installation
117	Catch Basin
118	Monument
120	Parking Layouts
121	Tree Well
122	Street Tree Planting
200	Standard Manhole
201A	Concrete Internal Drop Manhole
201B	Concrete External Drop Manhole
202	Manhole Frame and Cover
203	Clean - Out
204	Wye and Laterals
205	Pipe Subgrade for Sewer and Storm Drain
206	Concrete Support for Undercut Pipe
207	Trench Section and Pavement Replacement
208	Sanitary Sewer Spot Repair



- NOTES:**
1. ALL WORKS SHALL BE DONE IN ACCORDANCE WITH SECTION 73 OF STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS
 2. TOP AND FRONT OF CURBS AND GUTTERS TO BE FINE BRUSH FINISH AFTER TROWELLING; BRUSHING TO BE PARALLEL TO THE LINE OF THE CURB.
 3. CONCRETE TO BE CLASS B (5 SACK).
 4. PLACE 6" MIN CLASS 2 AGGREGATE BASE.

CITY OF PACIFIC GROVE		
STANDARD DETAILS FOR STREET IMPROVEMENTS		
DESIGNED BY	No. 29411	
DRAWN BY	CURB & GUTTER	
CHECKED BY	APPROVED: <i>W. J. Ford</i> CITY ENGINEER	DATE: 11/3/10
		DETAIL No. 100

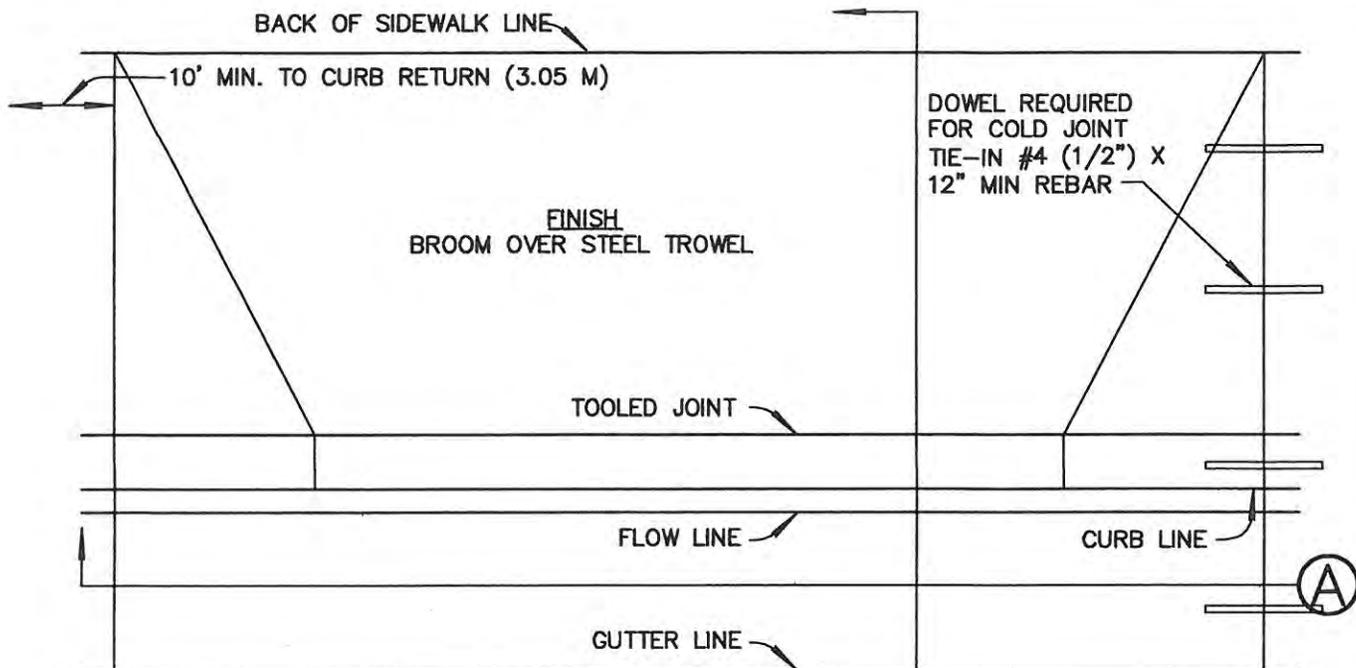




NOTES:

1. ALL WORKS SHALL BE DONE IN ACCORDANCE WITH SECTION 73 OF STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS
2. EXPANSION JOINTS TO BE DOWELED WITH TWO #4 (1/2") REBARS AT RETURN.
3. TOP AND FRONT OF CURB AND GUTTER TO HAVE FINE BRUSH FINISH.

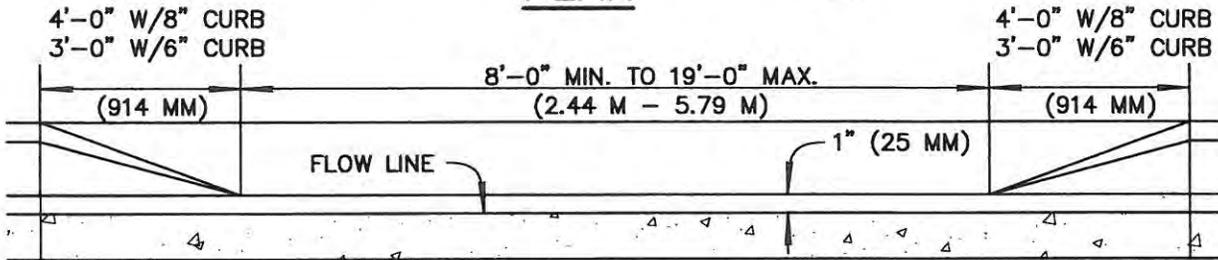
				CITY OF PACIFIC GROVE	
STANDARD DETAILS FOR STREET IMPROVEMENTS					
DESIGNED BY	TITLE	ROLLED CURB & GUTTER SECTION			
DRAWN BY	APPROVED	DATE	DETAIL No.		
AP		11/3/10	100A		
CHECKED BY	CITY ENGINEER	RCE NO. 29411			



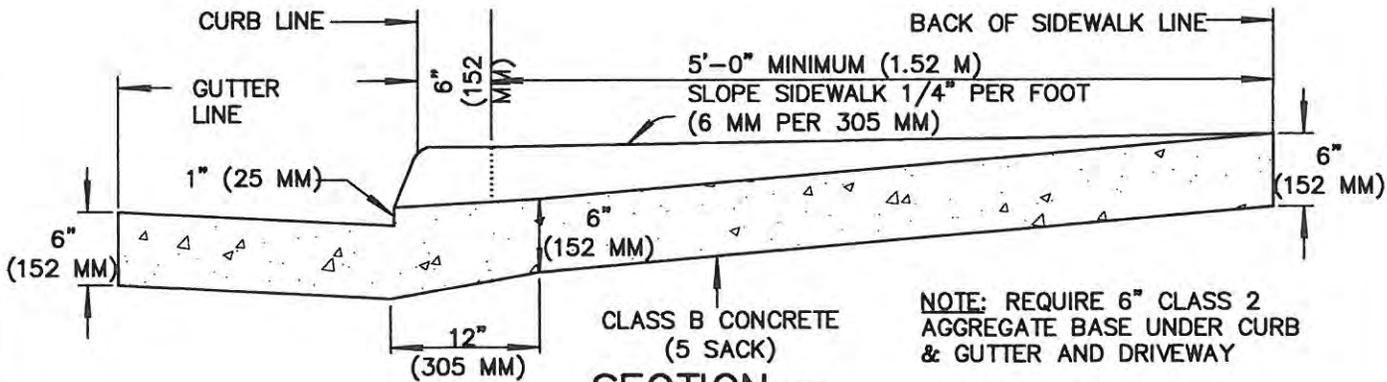
NOTE: SAWCUT EXISTING CONCRETE TO BE REMOVED

PLAN

(B)



SECTION A



SECTION B

CITY OF PACIFIC GROVE
 STANDARD DETAILS FOR STREET IMPROVEMENTS

STANDARD DRIVEWAY

DESIGNED BY

TITLE EXP.

DRAWN BY
 AP

APPROVED CIVIL
 STATE OF CALIFORNIA

DATE

DETAIL No.

CHECKED BY

CITY ENGINEER

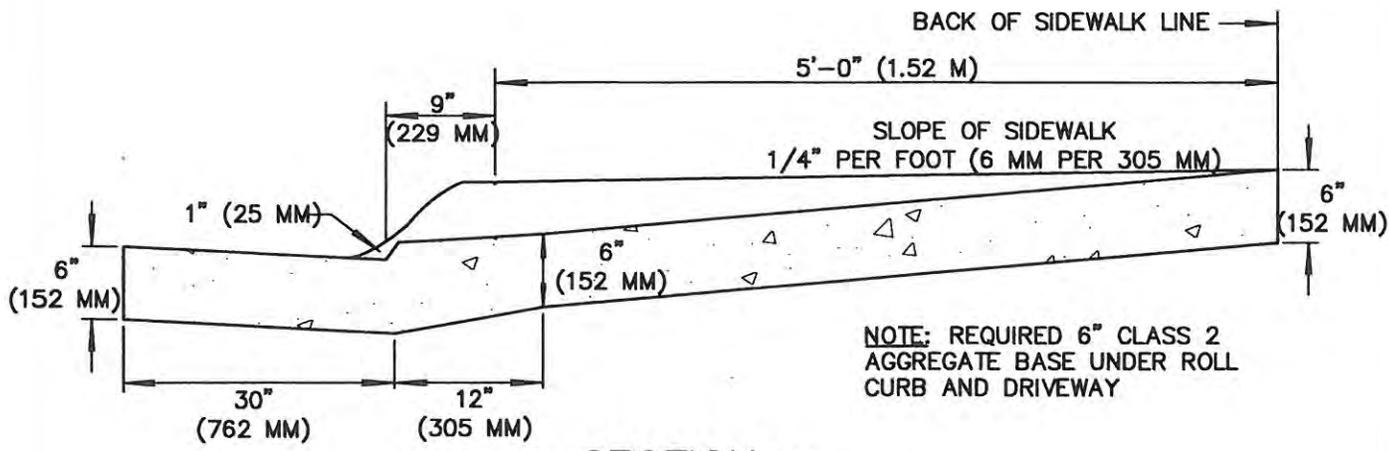
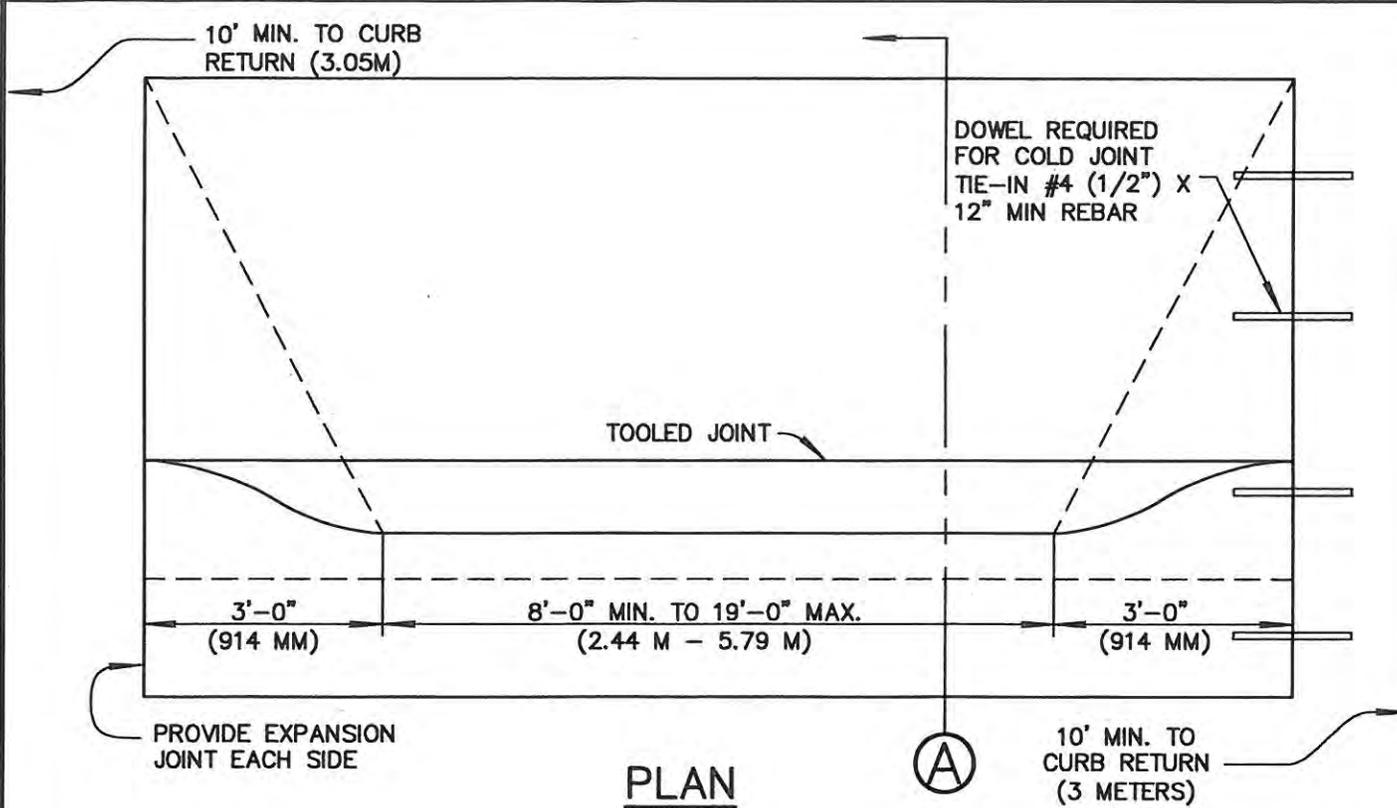
RCE NO. 29411

101



Sherman W. Fowl

11/3/10



SECTION A

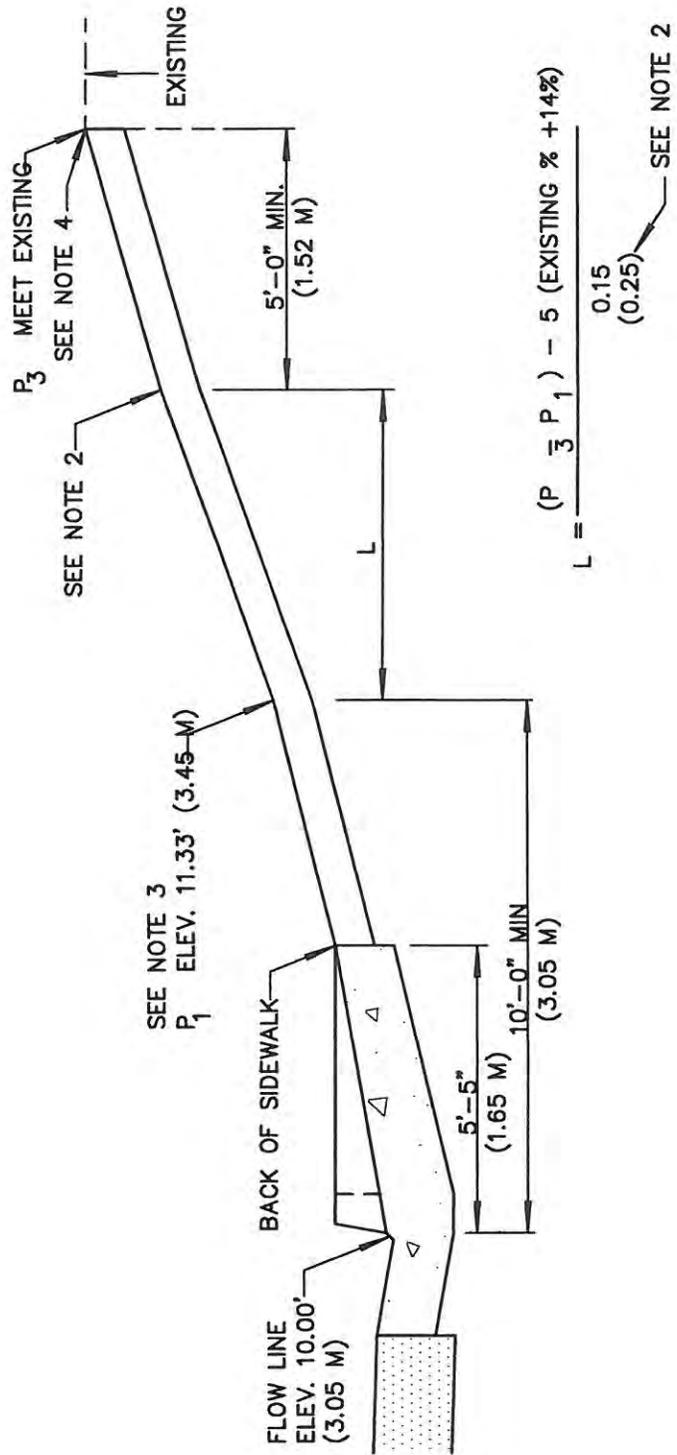
NOTES:

1. SAWCUT EXISTING CONCRETE TO BE REMOVED FOR DRIVEWAY.
2. FINISH SHALL BE BROOM OVER STEEL TROWEL.
3. CLASS "B" (5 SACK) CONCRETE TO BE USED.
4. THIS DETAIL TO BE USED ONLY AT EXISTING ROLL CURB.

CITY OF PACIFIC GROVE			
STANDARD DETAILS FOR STREET IMPROVEMENTS			
DESIGNED BY	TITLE No. 29411	ROLL CURB DRIVEWAY	
DRAWN BY AP	APPROVED <i>[Signature]</i> CITY ENGINEER	DATE 11/3/10	DETAIL No. 102
CHECKED BY	CITY ENGINEER	RCE NO. 29411	

NOTES:

1. ALL ELEVATIONS ARE AT LOW SIDE OF DRIVEWAY.
2. MAXIMUM ALLOWABLE GRADE IS 25%, RECOMMENDED GRADE IS 15%
3. MAXIMUM GRADE BREAK IS 15%
4. MAXIMUM RAMP BREAKOVER ANGLE IS 14%



CITY OF PACIFIC GROVE
STANDARD DETAILS FOR STREET IMPROVEMENTS
UP HILL DRIVEWAY

DESIGNED BY
 DRAWN BY
 AP
 CHECKED BY

No. 29411
 TITLE
 APPROVED: *[Signature]*
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 CITY ENGINEER

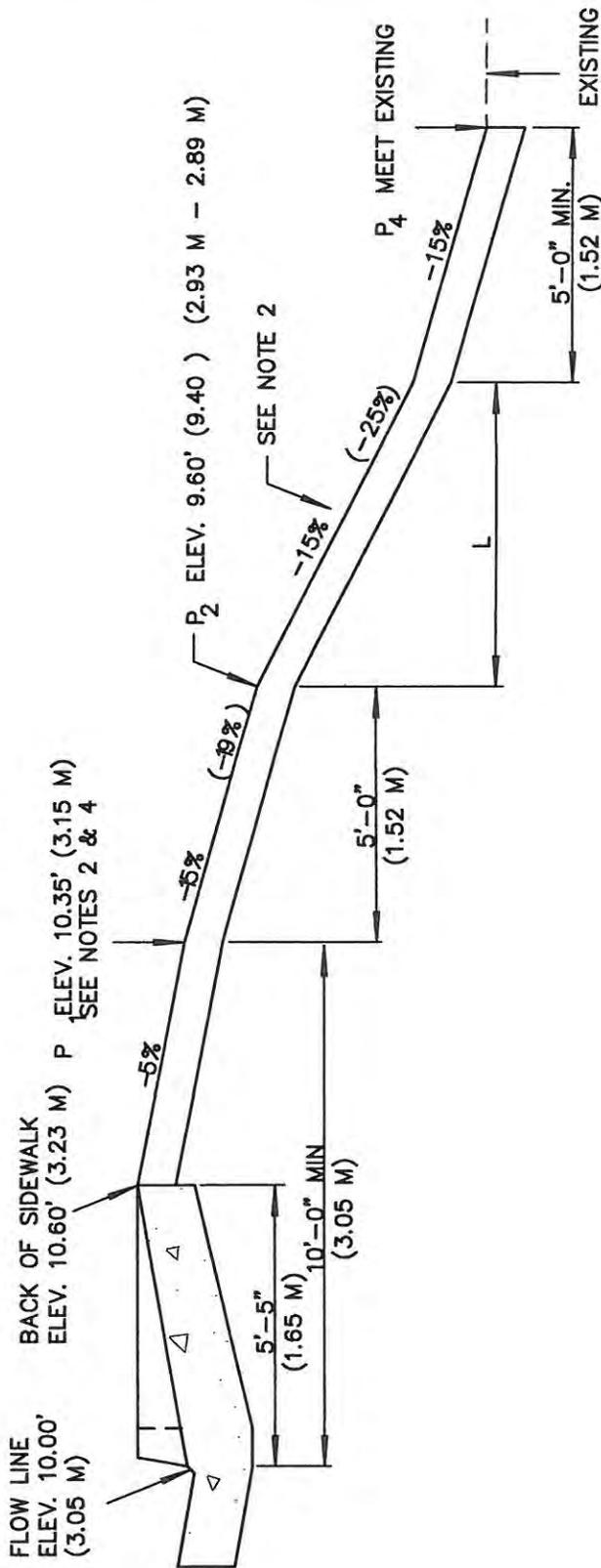
DATE
 11/3/10
 RCE NO. 29411

DETAIL No.
103



NOTES:

1. ALL ELEVATIONS ARE AT LOW SIDE OF DRIVEWAY.
2. MAXIMUM ALLOWABLE GRADE IS 25%, RECOMMENDED GRADE IS 15%
3. MAXIMUM GRADE BREAK IS 15%
4. MAXIMUM RAMP BREAKOVER ANGLE IS 14%



$$L = \frac{(P_2 - P) - 5 \text{ (EXISTING \% - 15\%)}}{0.15} \text{ SEE NOTE 2}$$

CITY OF PACIFIC GROVE
STANDARD DETAILS FOR STREET IMPROVEMENTS
DOWN HILL DRIVEWAY

DESIGNED BY

TITLE No. 29411

DRAWN BY
AP

APPROVED

DATE

DETAIL No.

CHECKED BY

CITY ENGINEER

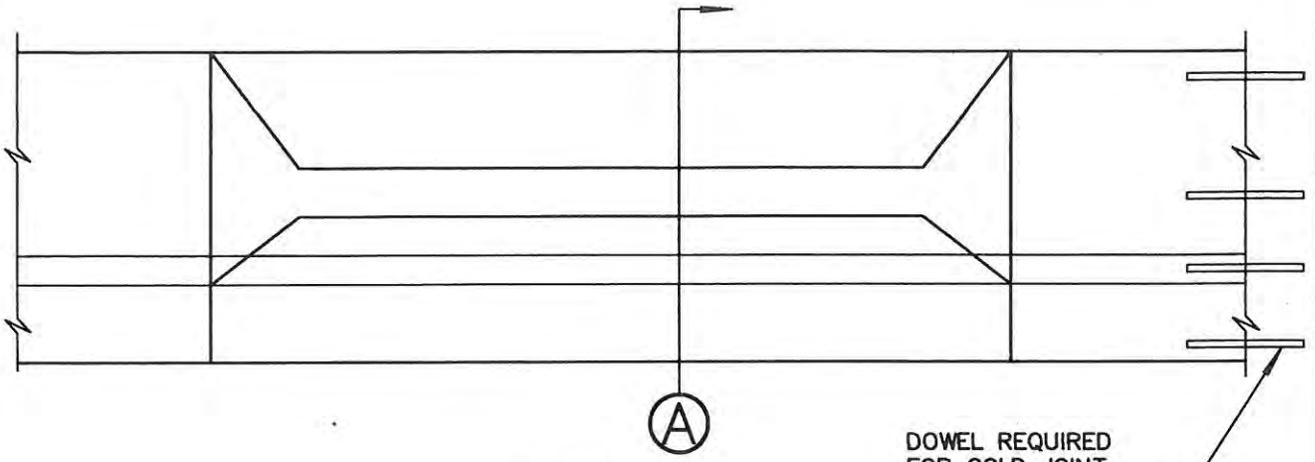
RCE NO. 29411

104



Sherman W. Fowl

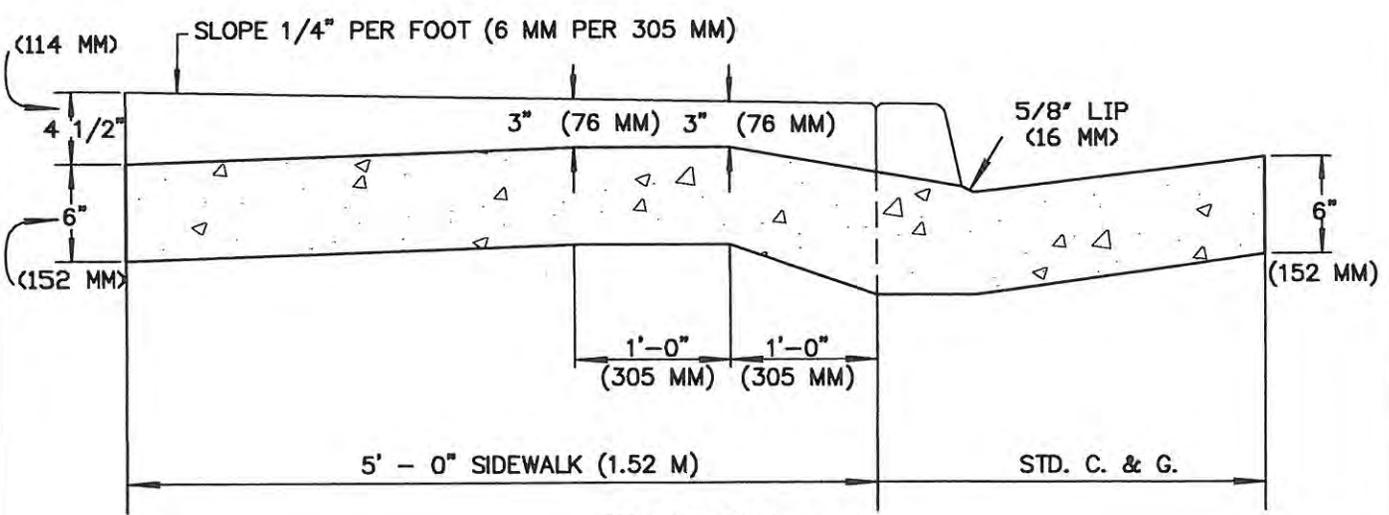
11/3/10



PLAN

FINISH: BROOM OVER STEEL TROWEL

DOWEL REQUIRED FOR COLD JOINT TIE-IN, #4 (1/2") X 12" MIN REBAR



SECTION A

NOTES:

1. CONCRETE TO BE CLASS "B" (5 SACK) .
2. PLACE 6" CLASS 2 AGGREGATE BASE UNDER CURB & GUTTER AND DRIVEWAY.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 73 OF STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
4. SEE STANDARD DETAIL # 104 FOR CONTINUATION OF DRIVEWAY TOWARD GRADE.
5. TO BE USED ONLY WITH THE CITY ENGINEER'S APPROVAL.

CITY OF PACIFIC GROVE
STANDARD DETAILS FOR STREET IMPROVEMENTS

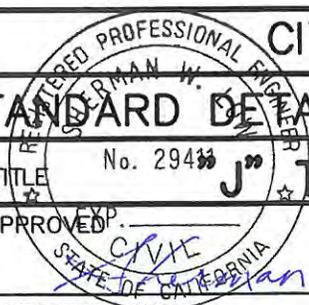
No. 29411 "J" TYPE DRIVEWAY APPROACH

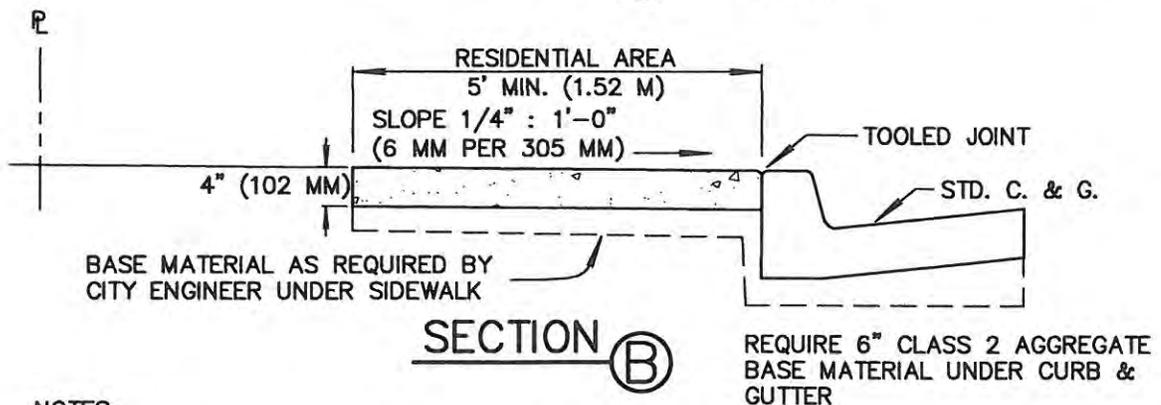
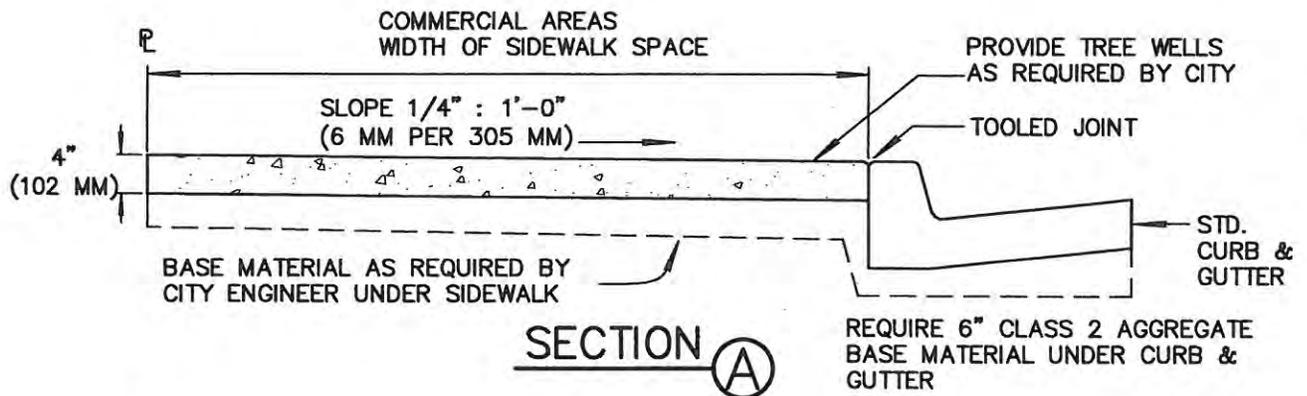
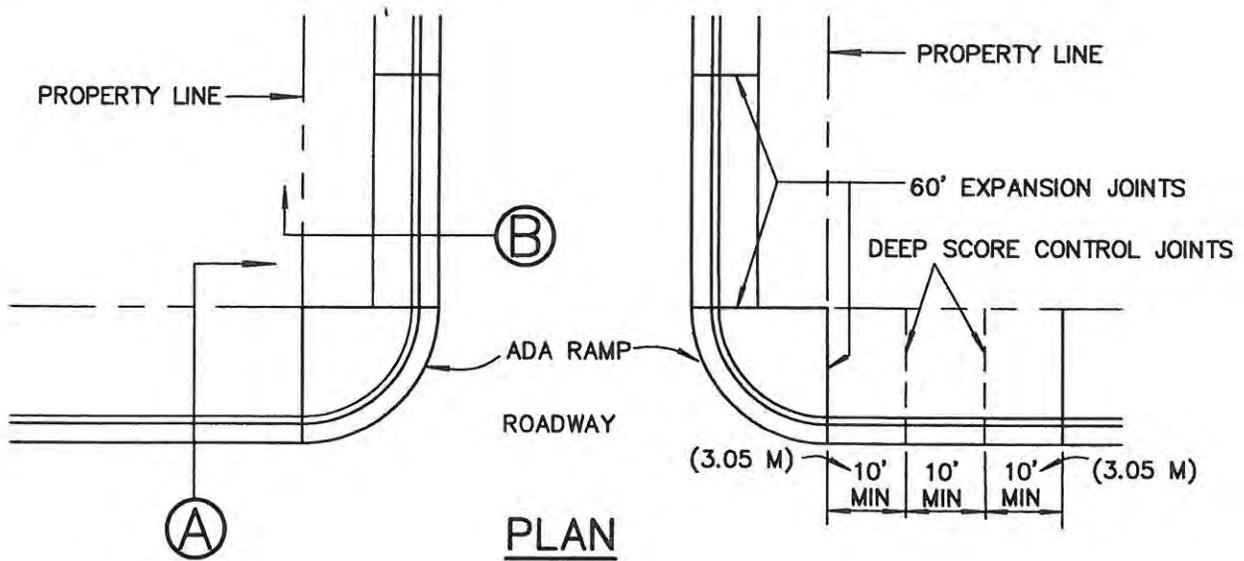
DESIGNED BY
DRAWN BY AP
CHECKED BY

APPROVED: *[Signature]*
CITY ENGINEER

DATE 11/3/10
RCE NO. 29411

DETAIL No. 105

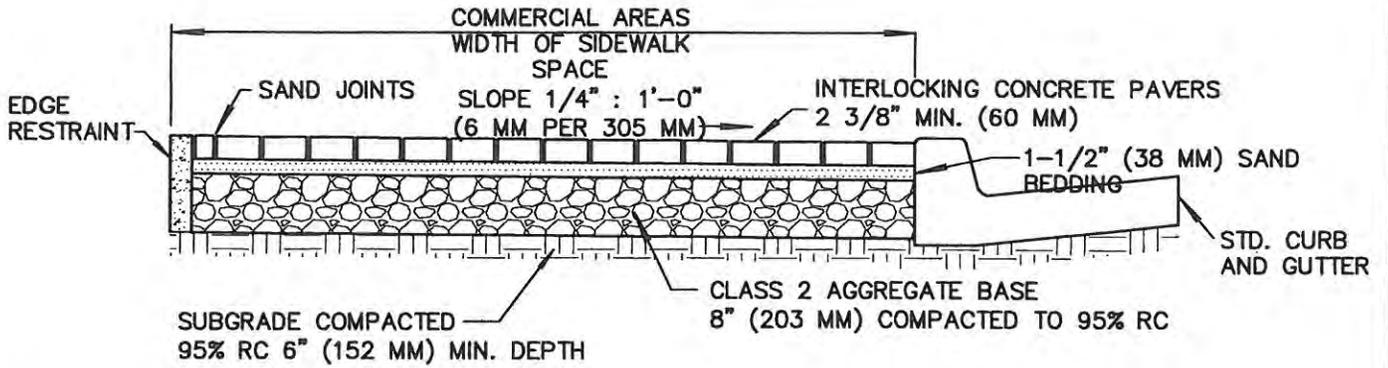




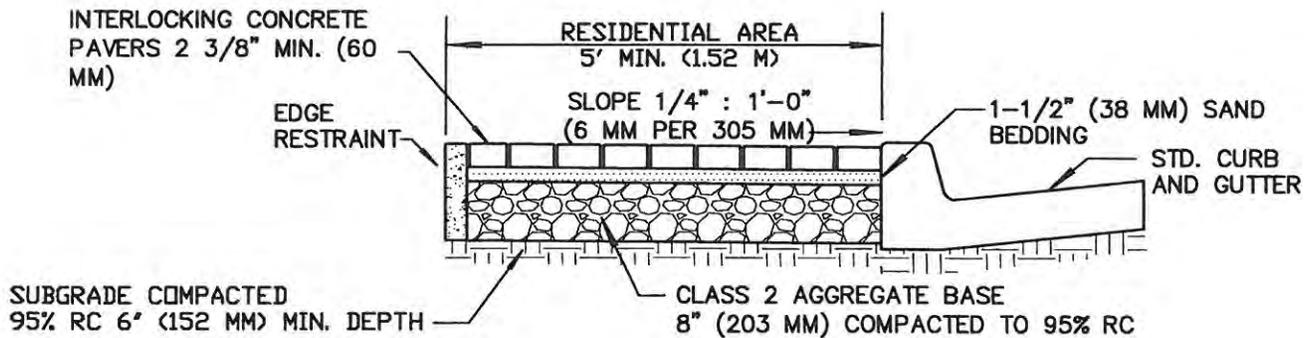
NOTES:

1. CONCRETE TO BE CLASS "B" (5 SACK) .
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 73 OF STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
3. FINISH SHALL BE BROOM OVER STEEL TROWEL OTHER FINISHES SUBJECT TO CITY APPROVAL INCLUDING COLORS.

CITY OF PACIFIC GROVE			
STANDARD DETAILS FOR STREET IMPROVEMENTS			
DESIGNED BY	TITLE No. 29411	SIDEWALK	
DRAWN BY AP	APPROVED <i>[Signature]</i> CIVIL STATE OF CALIFORNIA	DATE 11/3/10	DETAIL No. 106
CHECKED BY	CITY ENGINEER	RCE NO. 29411	



COMMERCIAL



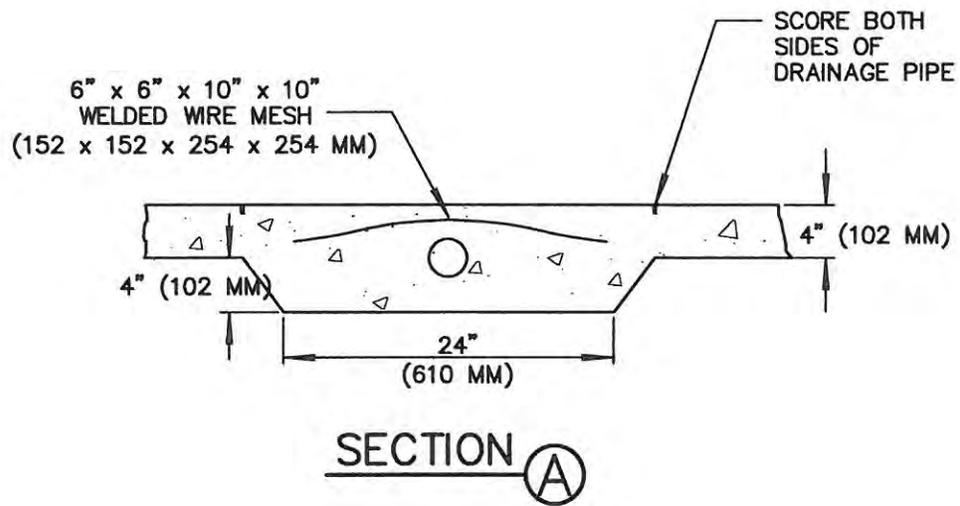
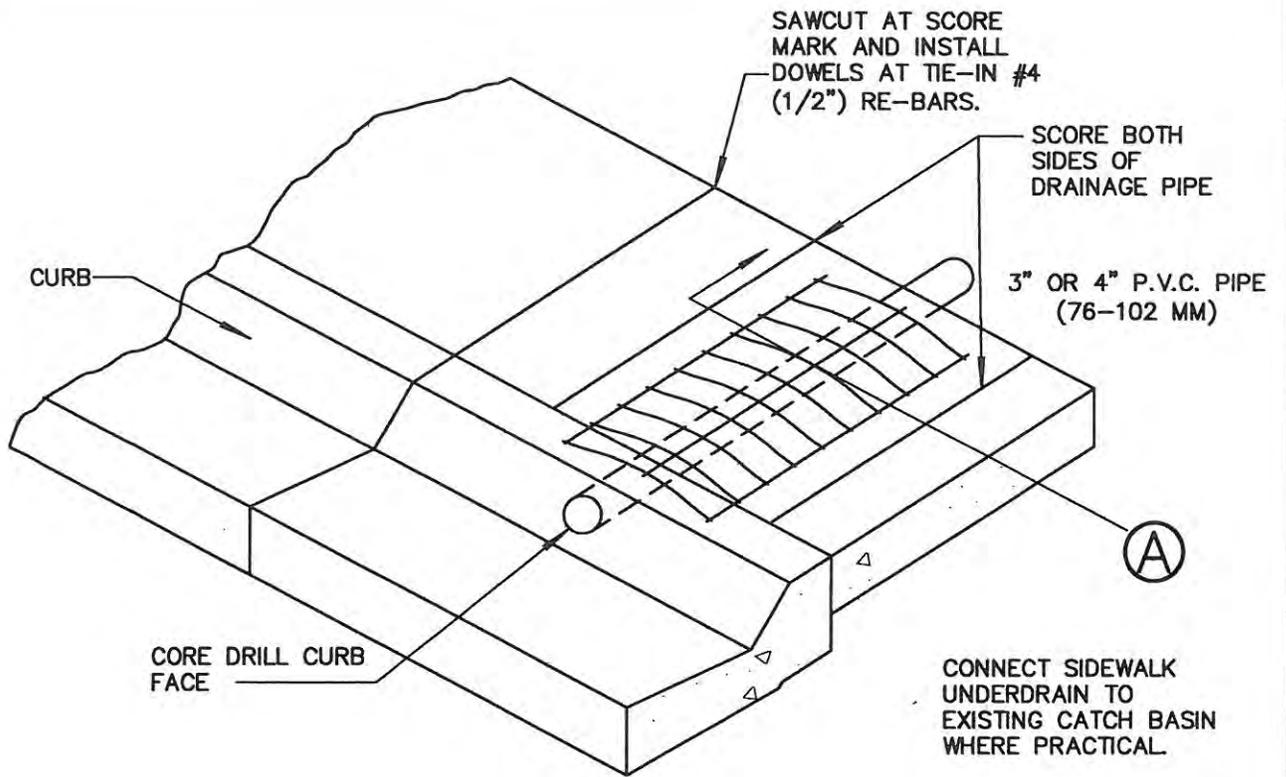
RESIDENTIAL

PAVERS NOT PERMITTED FOR DRIVEWAY APPROACHES

NOTES:

1. THE STYLE AND COLOR OF THE INTERLOCKING PAVERS SHALL BE APPROVED BY THE CITY ENGINEER.
2. ALL JOINTS PAVERS SHALL BE FILLED WITH MASONS SAND AND COMPACTED WITH A VIBRATOR PLATE. SWEEP OFF ANY EXCESS SAND.
3. PAVER STONES SHALL BE INSTALLED 1/4" ABOVE FINAL GRADE.
4. ALL PAVER EDGES SHALL BE CONSTRAINED USING FLUSH CONCRETE CURB, PLASTIC EDGING, OR ALUMINUM/STEEL EDGING.

			
CITY OF PACIFIC GROVE			
STANDARD DETAILS FOR STREET IMPROVEMENTS			
DESIGNED BY	TITLE	DATE	DETAIL No.
AP	ALTERNATE SIDEWALK (CONCRETE PAVERS)	11/3/10	106A
CHECKED BY	APPROVED	CITY ENGINEER	RCE NO. 29411
	<i>Sherman W. Fowl</i>		



REMOVE SIDEWALK SECTION TO NEAREST SCORE JOINT

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

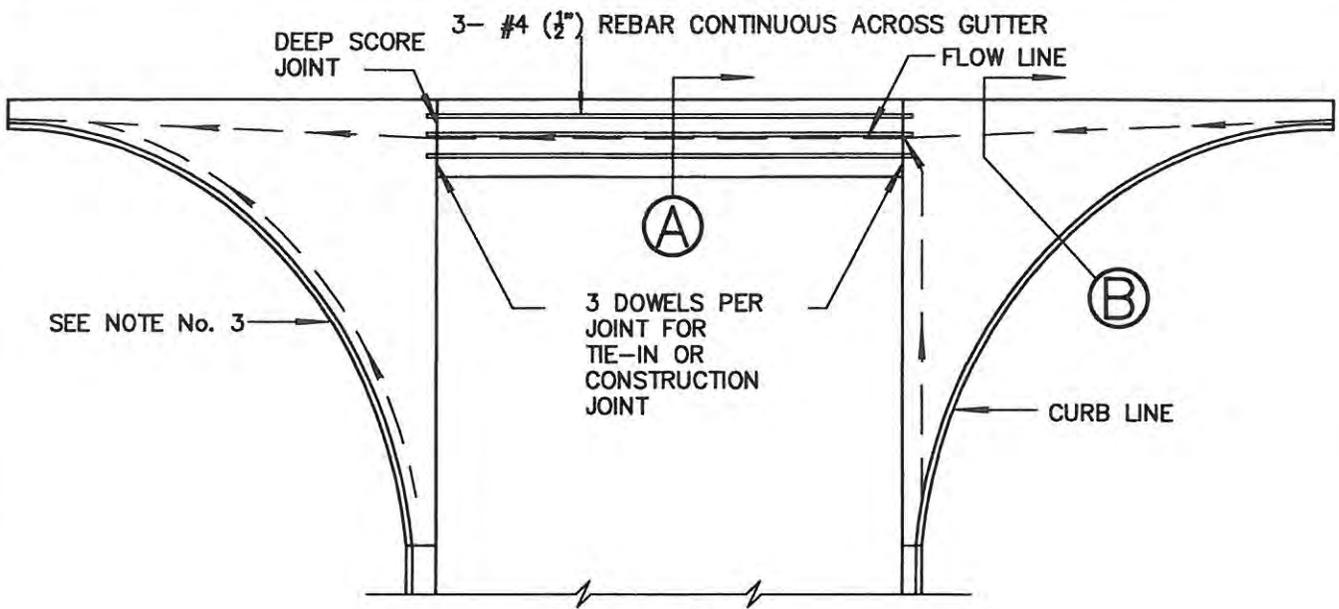
SIDEWALK UNDERDRAIN

DESIGNED BY	TITLE No. 29411		DATE	DETAIL No.
DRAWN BY	APPROVED	CITY ENGINEER	11/3/10	107
CHECKED BY	CITY ENGINEER		RCE NO. 29411	

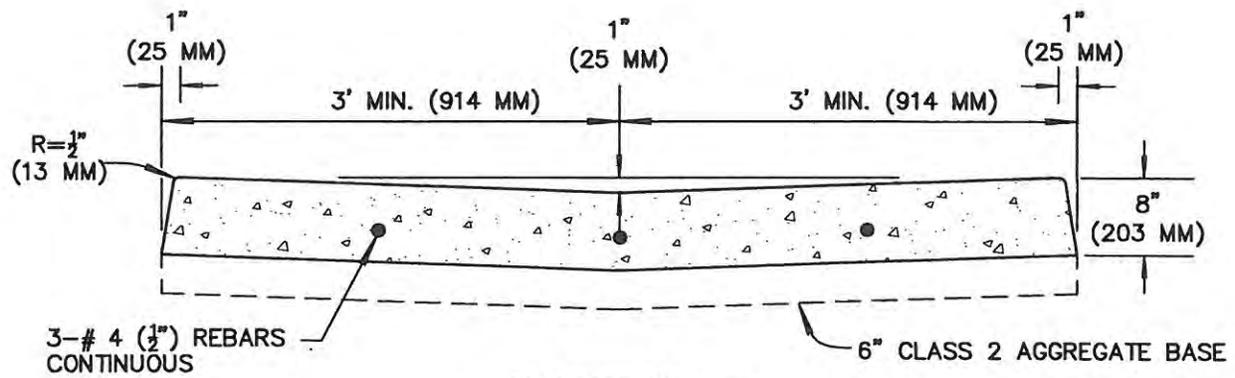
SEE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
STANDARD PLANS RSP A88A

CITY OF PACIFIC GROVE			
STANDARD DETAILS FOR STREET IMPROVEMENTS			
DESIGNED BY	TITLE No. 29411	CURB RAMP	
DRAWN BY AP	APPROVED <i>Man W. Fow</i>	DATE 11/3/10	DETAIL No. 108
CHECKED BY	CITY ENGINEER	RCE NO. 29411	

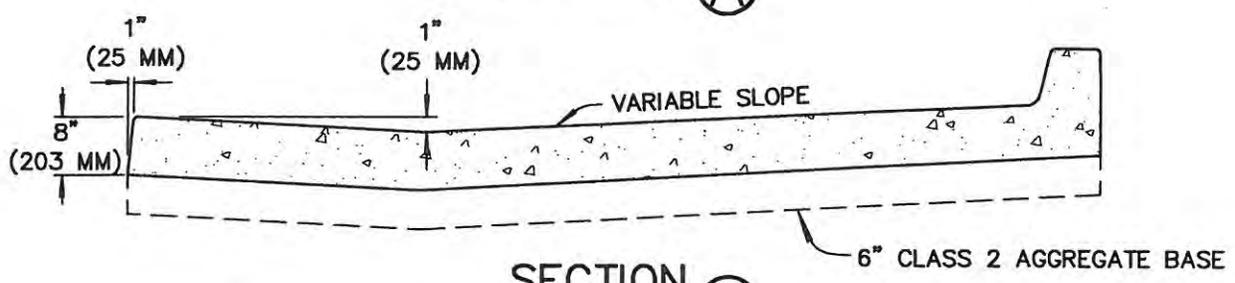




PLAN



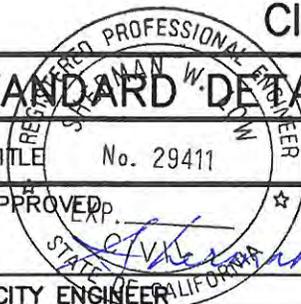
SECTION A



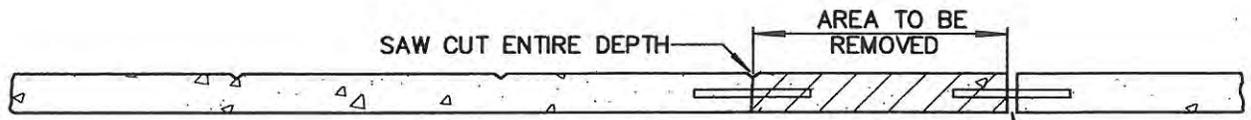
SECTION B

- NOTES:**
1. CONCRETE TO BE CLASS "B" (5 SACK) .
 2. FINISH SHALL BE BROOM OVER STEEL TROWEL.
 3. PROVIDE CURB RAMPS AS REQUIRED.

CITY OF PACIFIC GROVE			
STANDARD DETAILS FOR STREET IMPROVEMENTS			
OPEN CROSS GUTTER			
DESIGNED BY	TITLE	DATE	DETAIL No.
AP	No. 29411	11/3/10	109
CHECKED BY	APPROVED	CITY ENGINEER	RCE NO. 29411
	<i>W. J. Fow</i>		

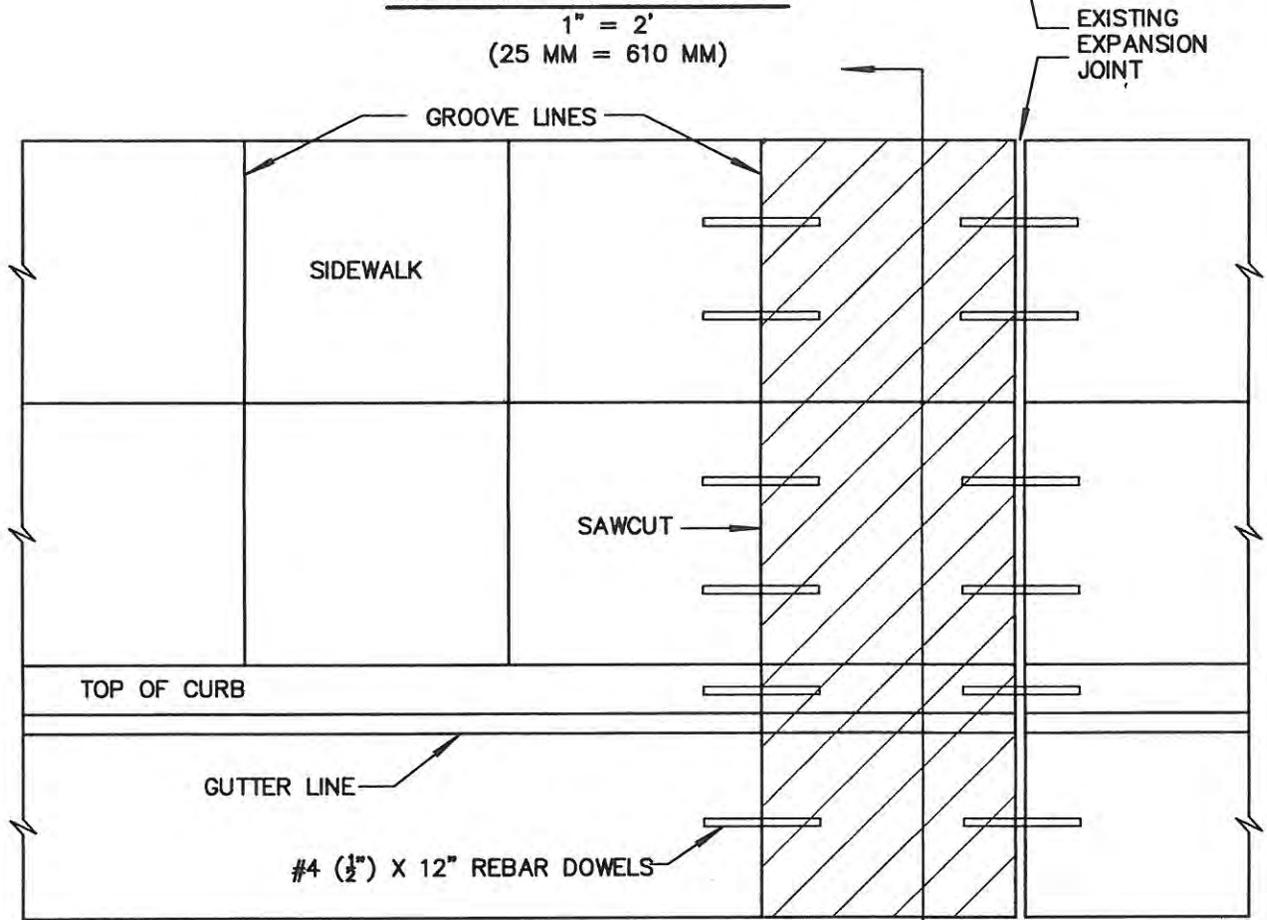


REMOVE FULL SECTION OF SIDEWALK,
SAWCUT MUST BE MADE AT JOINT OR GROOVE.



SIDEWALK SECTION

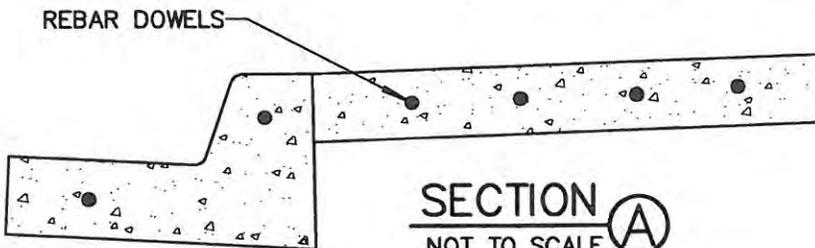
1" = 2'
(25 MM = 610 MM)



PLAN

1" = 2'
(25 MM = 610 MM)

(A)



SECTION A
NOT TO SCALE

CUT WITH ABRASIVE TYPE
CUTTING WHEEL. REMAINING
EDGE SHALL BE SMOOTH AND
TRUE, NO SHATTER.

CITY OF PACIFIC GROVE
STANDARD DETAILS FOR STREET IMPROVEMENTS

REGISTERED PROFESSIONAL ENGINEER
W. J. FOWLER
No. 29411
APPROVED
STATE OF CALIFORNIA
W. J. Fowler
CITY ENGINEER

REMOVAL OF CONCRETE CURB AND SIDEWALK

DESIGNED BY

DRAWN BY
AP

CHECKED BY

APPROVED

CITY ENGINEER

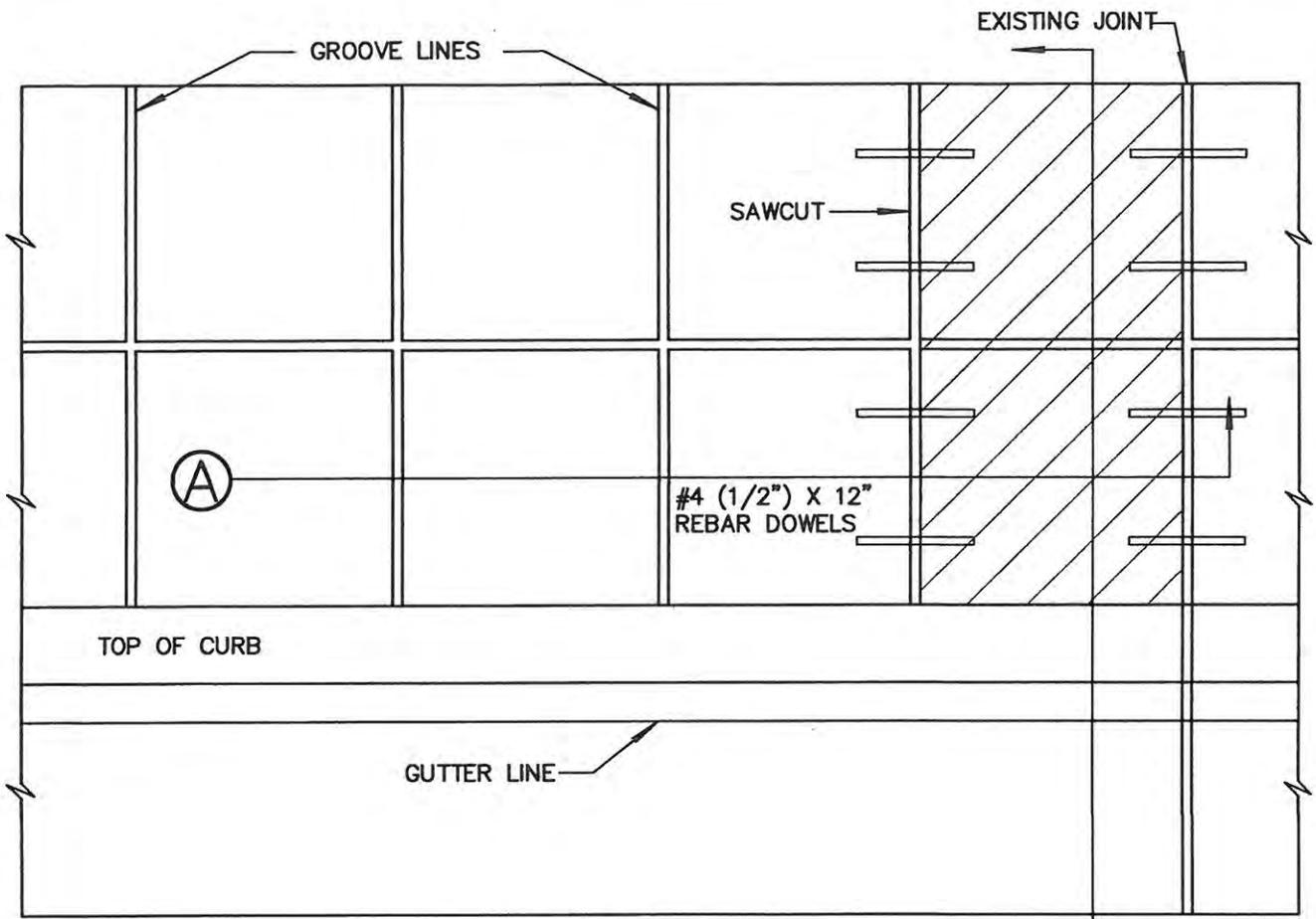
DATE

11/3/10

RCE NO. 29411

DETAIL No.

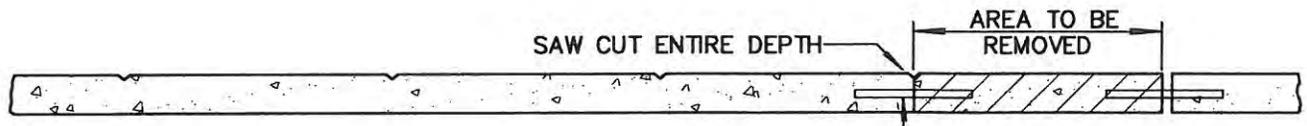
110



PLAN

1" = 2'
(25 MM = 610 MM)

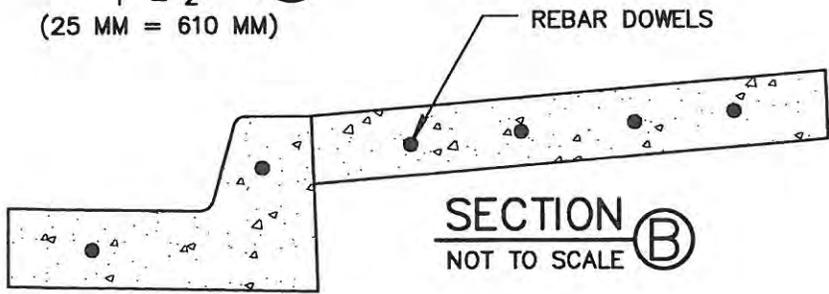
(B)



SECTION A

1" = 2'
(25 MM = 610 MM)

(A)



SECTION B

NOT TO SCALE (B)

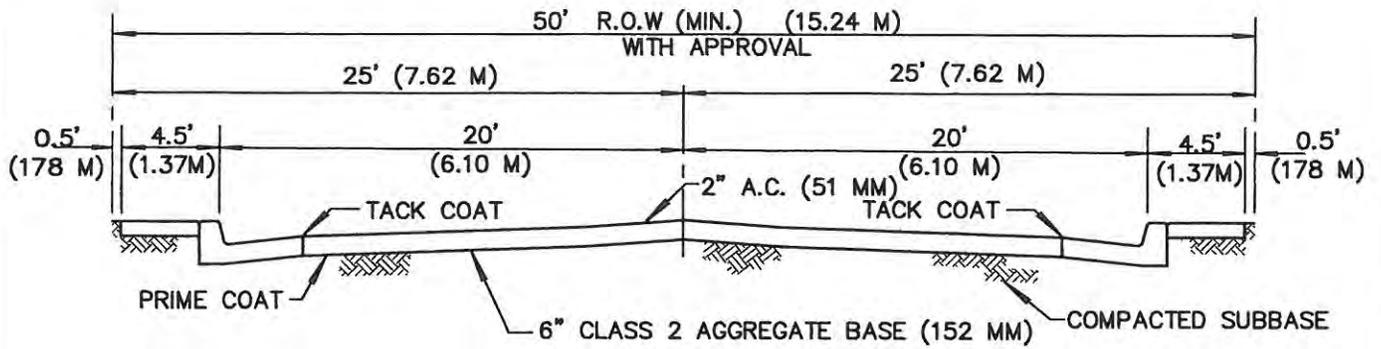
REMOVE FULL SECTION OF SIDEWALK. SAWCUT MUST BE MADE AT JOINT OR GROOVE. FINISHED SURFACE OF REPLACED SECTION SHALL BE UNIFORM SLOPE BETWEEN EXISTING SECTIONS.

CITY OF PACIFIC GROVE

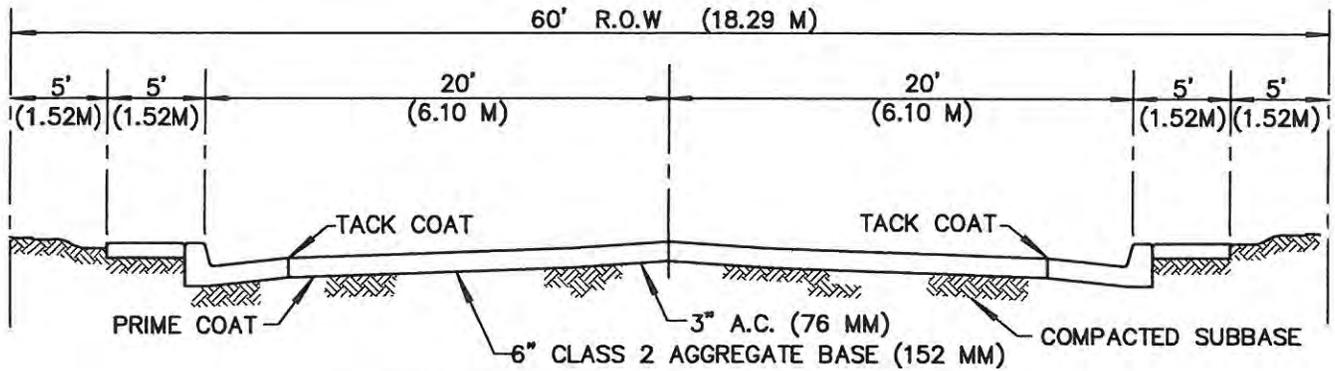
STANDARD DETAILS FOR STREET IMPROVEMENTS

DESIGNED BY	TITLE REPLACEMENT OF CONCRETE SIDEWALK		
DRAWN BY AP	APPROVED <i>Norman W. Fowl</i>	DATE 11/3/10	DETAIL No. 111
CHECKED BY	CITY ENGINEER	RCE NO. 29411	



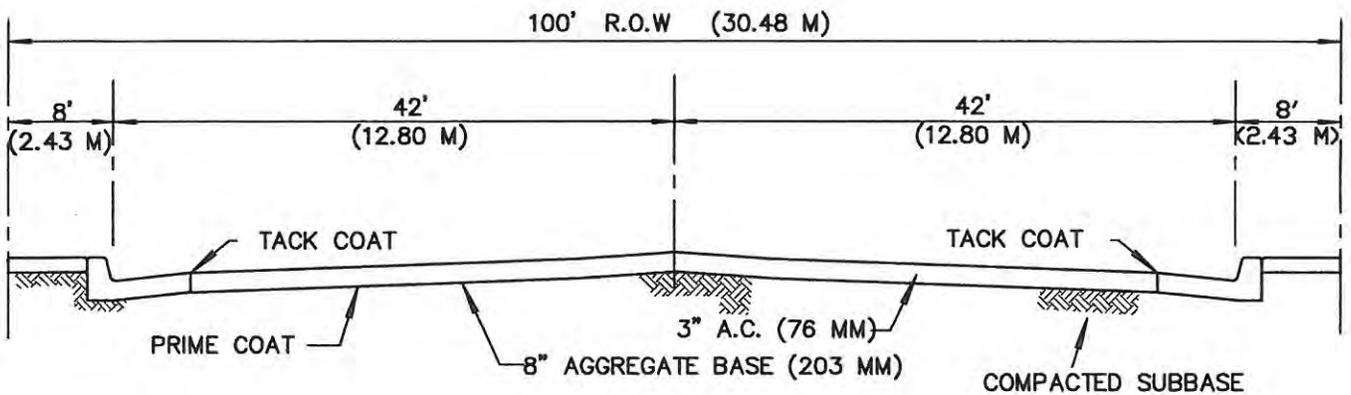


RESIDENTIAL



STRUCTURAL SECTION SUBJECT TO REVIEW BASED ON SOIL CONDITIONS

RESIDENTIAL OR COLLECTOR



ARTERIAL

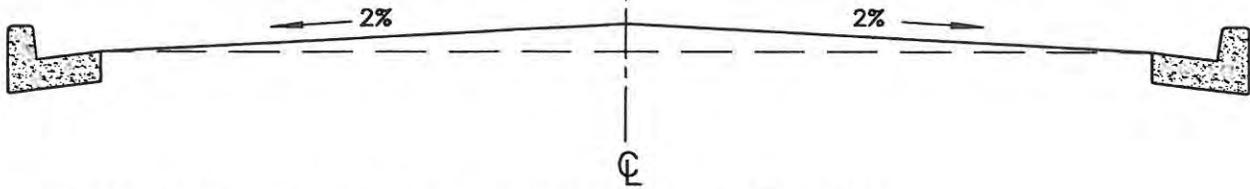


CITY OF PACIFIC GROVE
STANDARD DETAILS FOR STREET IMPROVEMENTS

TYPICAL STREET SECTIONS

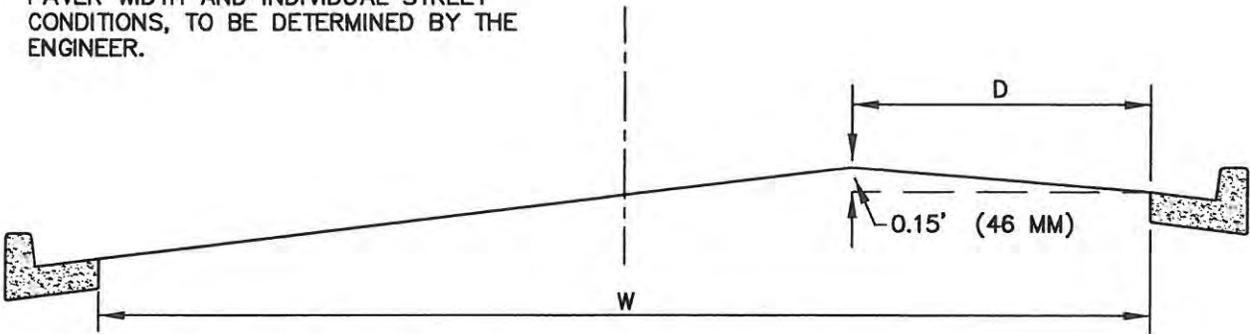
DESIGNED BY	No. 29411		TITLE
DRAWN BY	APPROVED	DATE	DETAIL No.
CHECKED BY	<i>Sherman W. Fowl</i>	11/3/10	112
	CITY ENGINEER	RCE NO. 29411	

CURBS AT SAME ELEVATION



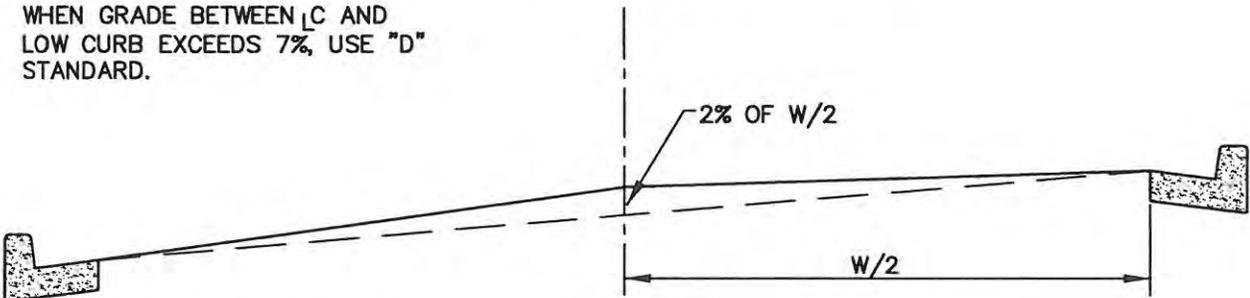
A. STANDARD CROWN - LEVEL SECTION

D VARIES FROM W/2 TO W/3 TO SUIT PAVER WIDTH AND INDIVIDUAL STREET CONDITIONS, TO BE DETERMINED BY THE ENGINEER.



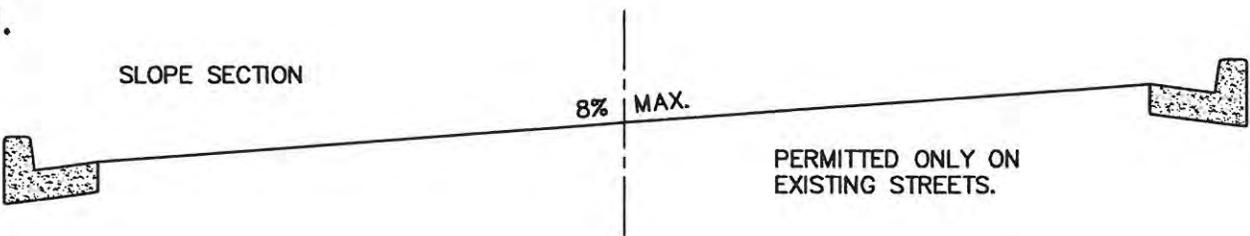
B. STANDARD CROWN - TILTED SECTION

WHEN GRADE BETWEEN CL AND LOW CURB EXCEEDS 7%, USE "D" STANDARD.



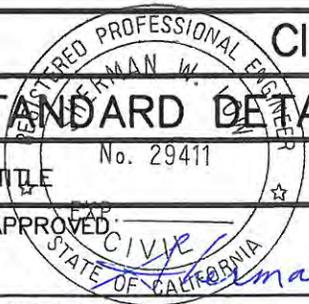
C. "FALSE" CROWN - TILTED SECTION

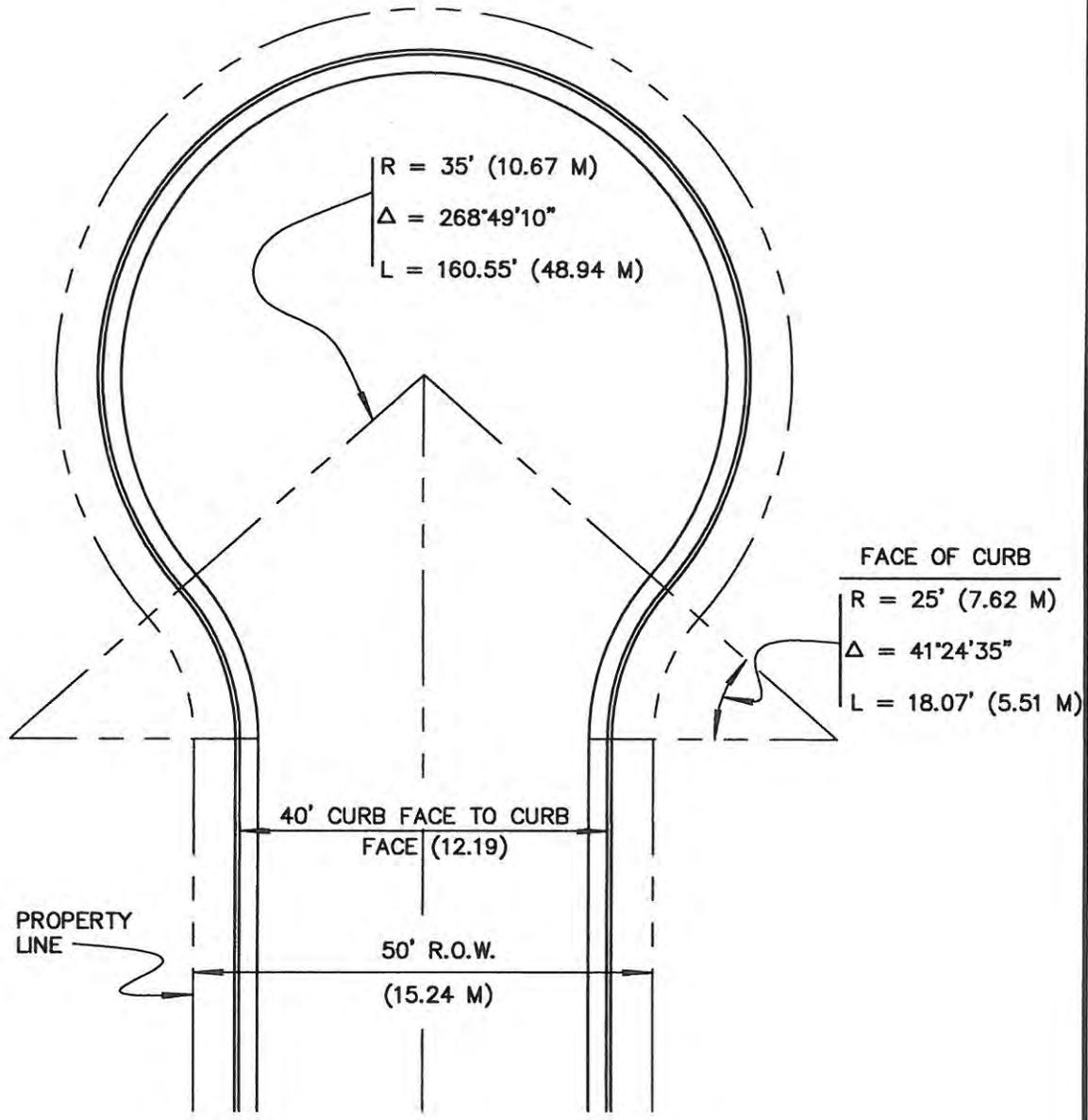
D.



CITY OF PACIFIC GROVE
 STANDARD DETAILS FOR STREET IMPROVEMENTS
 CROWNS

DESIGNED BY	TITLE No. 29411		DATE	DETAIL No.
DRAWN BY AP	APPROVED	CIVIL ENGINEER	11/3/10	113
CHECKED BY	CITY ENGINEER		RCE NO. 29411	



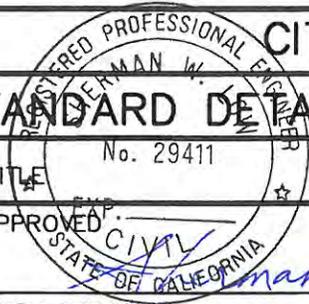


CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

CUL-DE-SAC

DESIGNED BY	TITLE	DATE	DETAIL No.
AP	No. 29411	11/3/10	114
CHECKED BY	APPROVED	CITY ENGINEER	RCE NO. 29411



WARNING SIGN

90°

STREET SIGN AT CURB RETURN

STOP SIGN AT CURB RETURN

WARNING SIGN

WARNING SIGN

250' MIN (76.20 M)

90°

100' (30.48 M)

90°

250' MIN (76.20 M)

CURB FACE

PROPERTY LINE

WARNING SIGN

90°

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

STREET SIGN LOCATIONS

DESIGNED BY

TITLE

No. 29411

DRAWN BY
AP

APPROVED

DATE

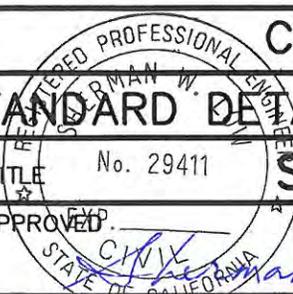
DETAIL No.

CHECKED BY

CITY ENGINEER

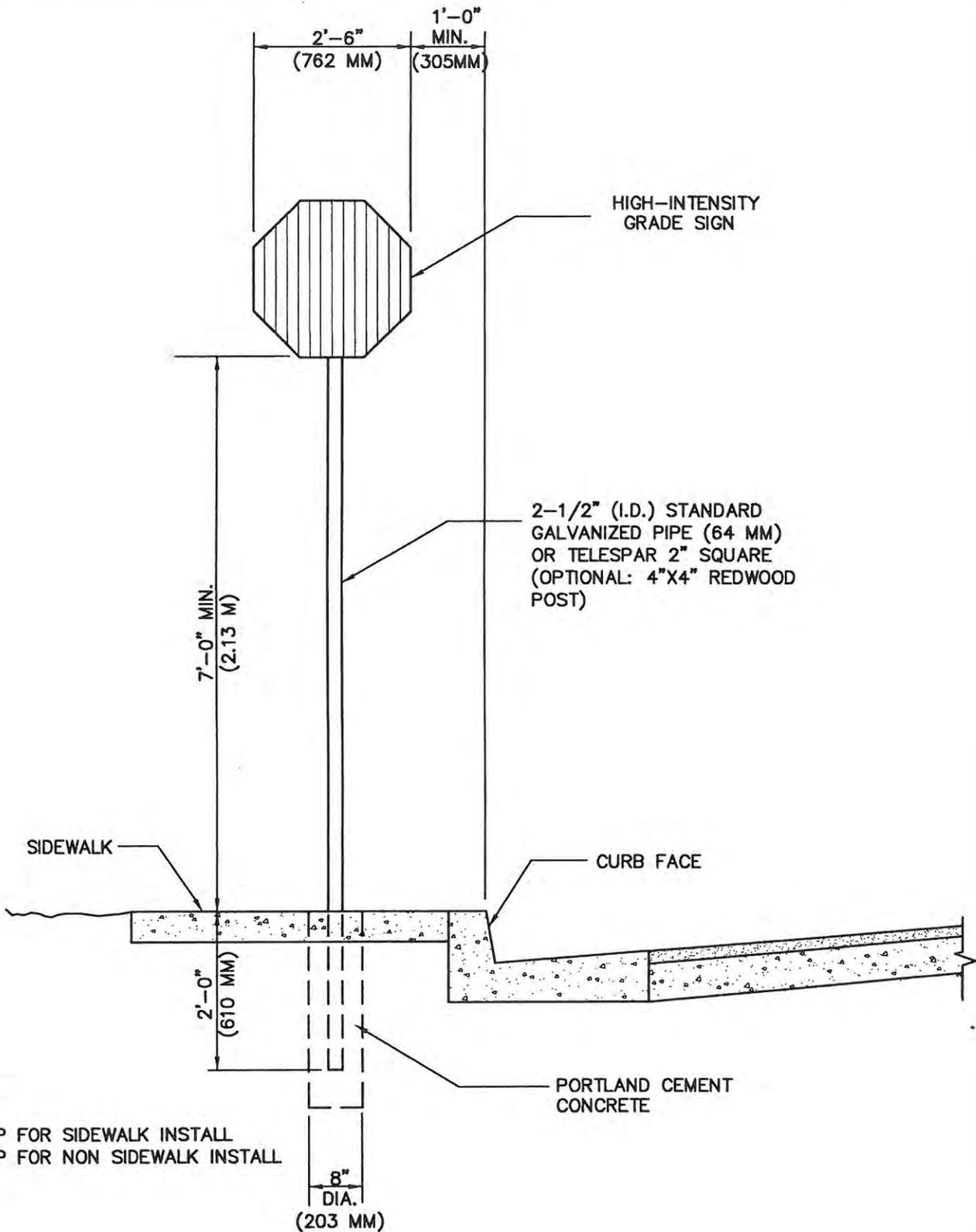
RCE NO. 29411

115



Sherman W. Fow

11/3/10



NOTES:

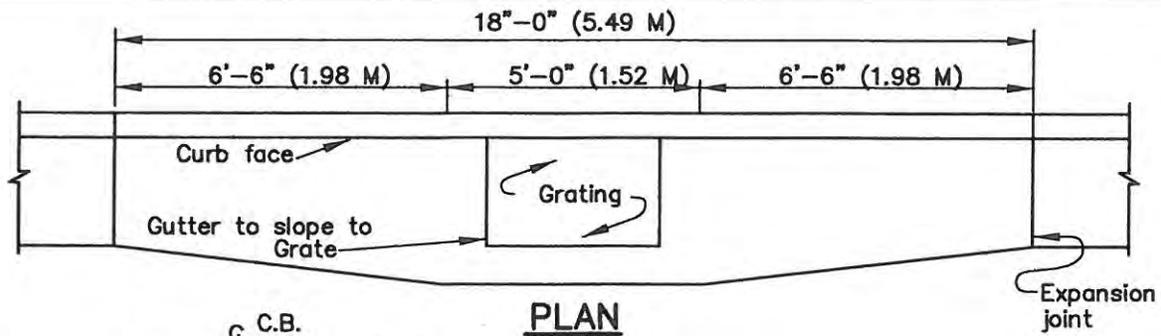
- 2' DEEP FOR SIDEWALK INSTALL
- 3' DEEP FOR NON SIDEWALK INSTALL

CITY OF PACIFIC GROVE

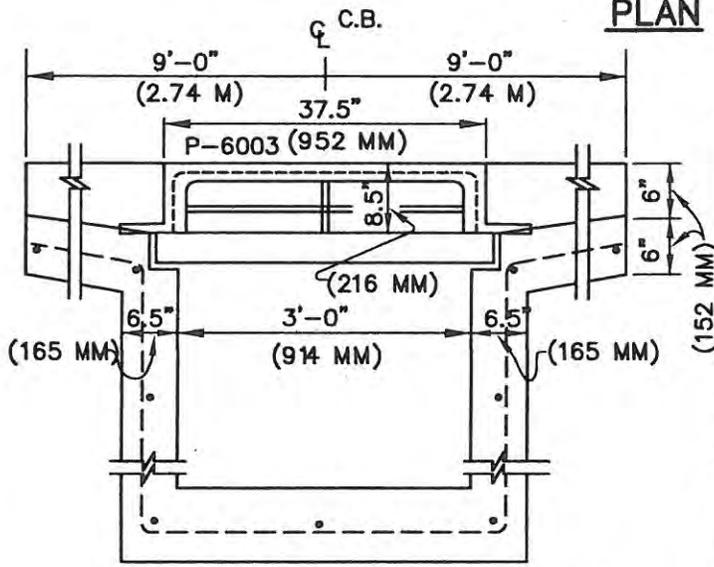
STANDARD DETAILS FOR STREET IMPROVEMENTS

GENERAL SIGN INSTALLATION

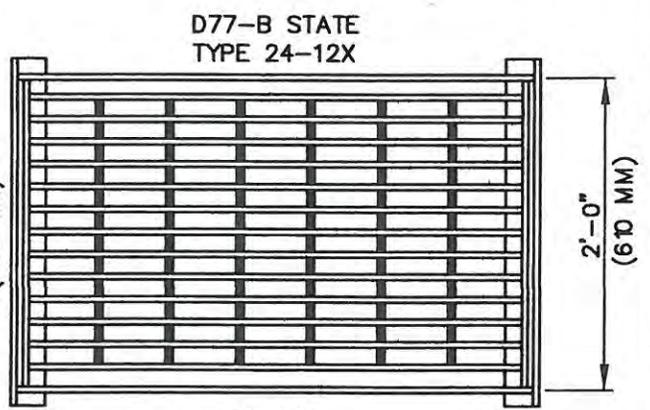
DESIGNED BY AP	TITLE No. 29411	DATE 11/3/10	DETAIL No. 116
CHECKED BY	APPROVED <i>Man W. Fow</i> CIVIL ENGINEER STATE OF CALIFORNIA	CITY ENGINEER	RCE NO. 29411



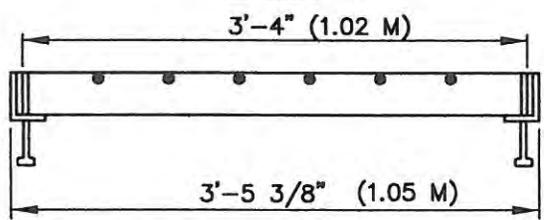
PLAN



FRONT PROFILE



PLAN



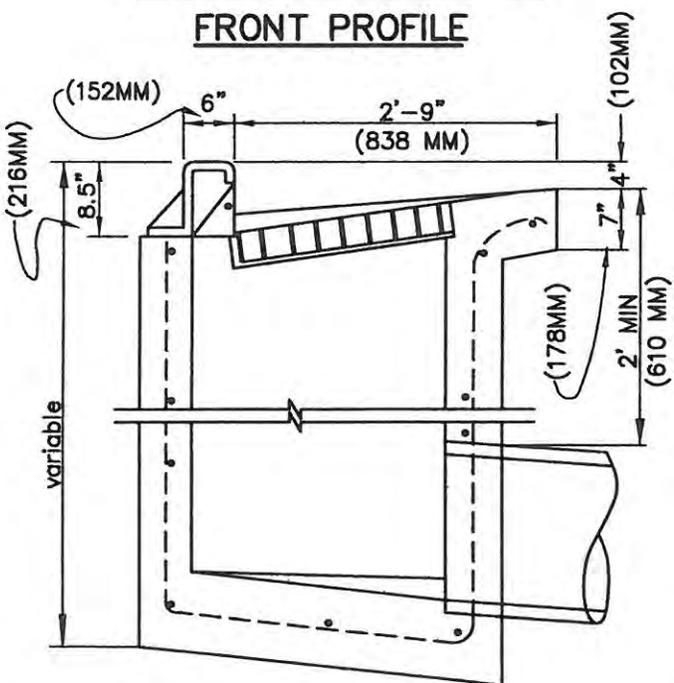
SECTION

FRAME & GRATE

3/4" = 1'-0"
 (19 MM = 305 MM)

NOTES:

1. ALL CONCRETE SHALL BE CLASS "B"
2. HOOD FOR CATCH BASIN SHALL BE OF TOUGH GRAY IRON FREE FROM DEFECTS
3. FRAME AND GRATE SHALL BE GALVANIZED STEEL.
4. NUMBERS REFER TO PHOENIX IRON WORKS OR STATE.
5. A 5/8" BAR STOCK PROTECTION BAR SHALL BE PLACED HORIZONTALLY ACROSS CURB OPENING.
6. REINFORCING STEEL WHEN THE HEIGHT IS 0' TO 4'-0" USE #3 @ 18" o.c. ea. way 10' OR MORE REQUIRES SPECIAL DESIGN.



SECTION

1/2" = 1'-0"
 (13 MM = 305 MM)

NOTE:

OPTIONAL-USE CALTRANS DETAIL

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

CATCH BASIN

DESIGNED BY

TITLE No. 29411

DRAWN BY AP

APPROVED

DATE

DETAIL No.

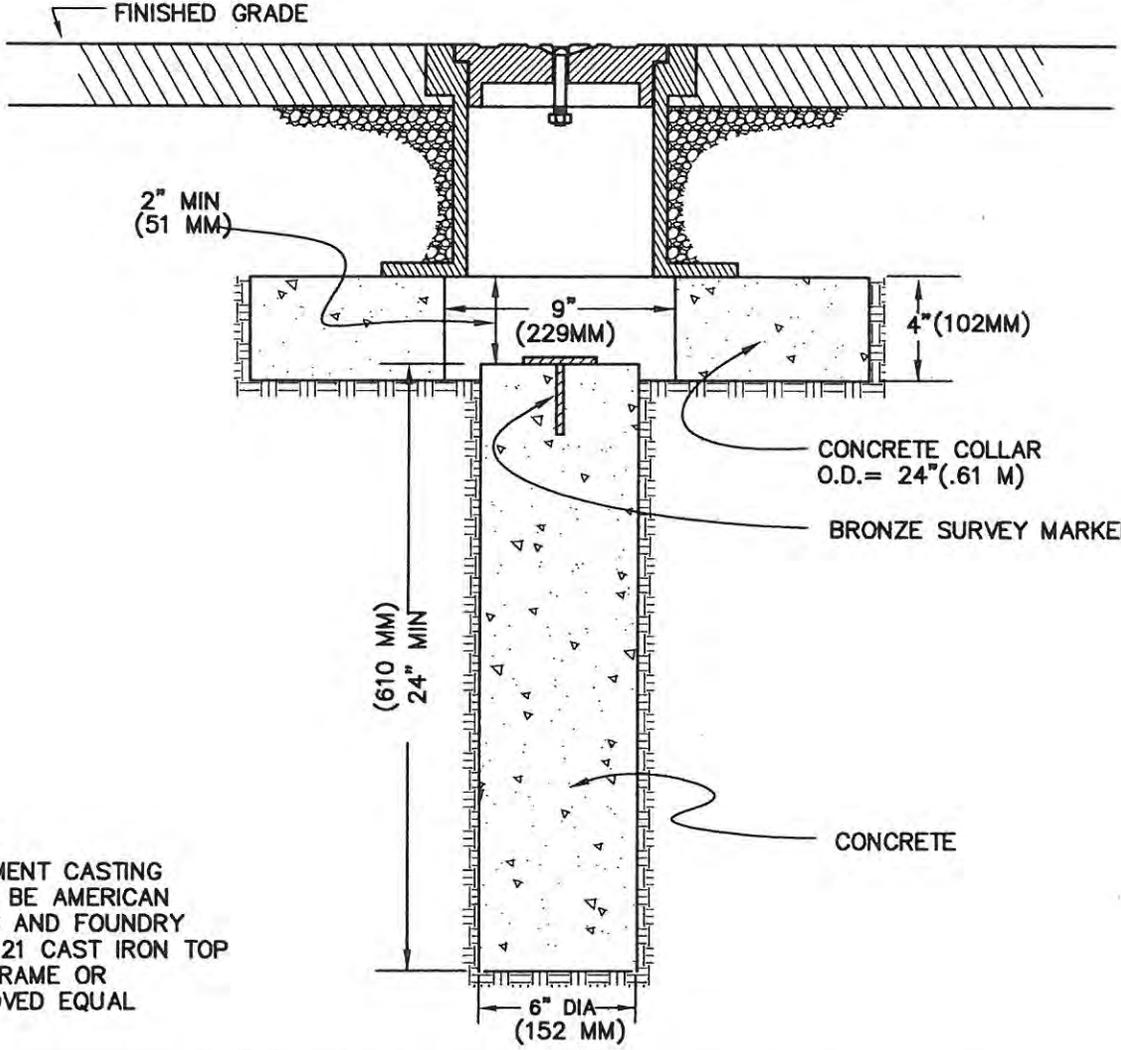
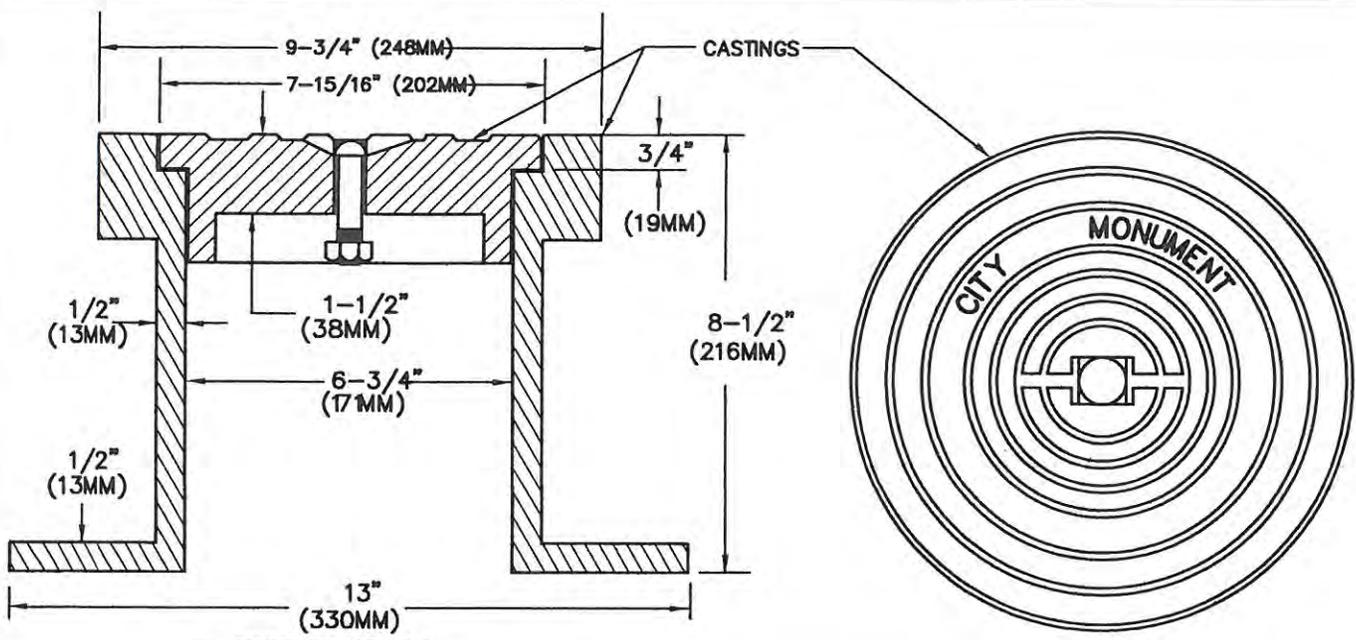
CHECKED BY

John W. Fowl
 CITY ENGINEER

11/3/10

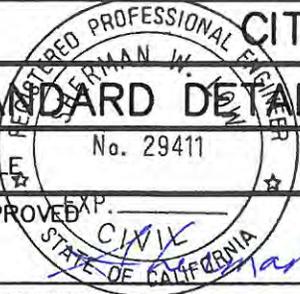
117

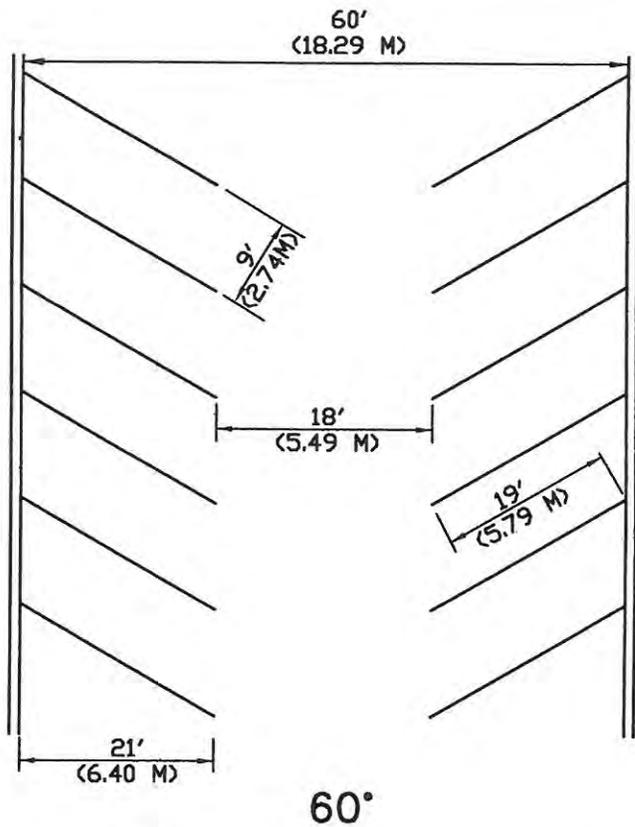
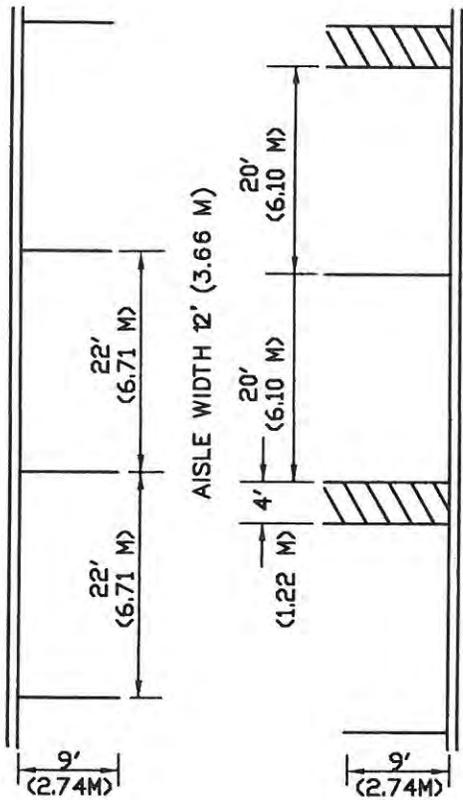
RCE NO. 29411



NOTE:
 MONUMENT CASTING SHALL BE AMERICAN BRASS AND FOUNDRY 5020-21 CAST IRON TOP AND FRAME OR APPROVED EQUAL

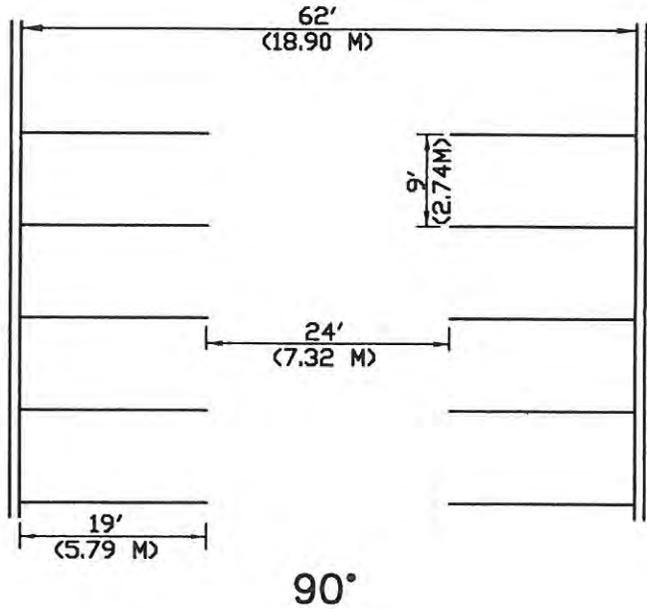
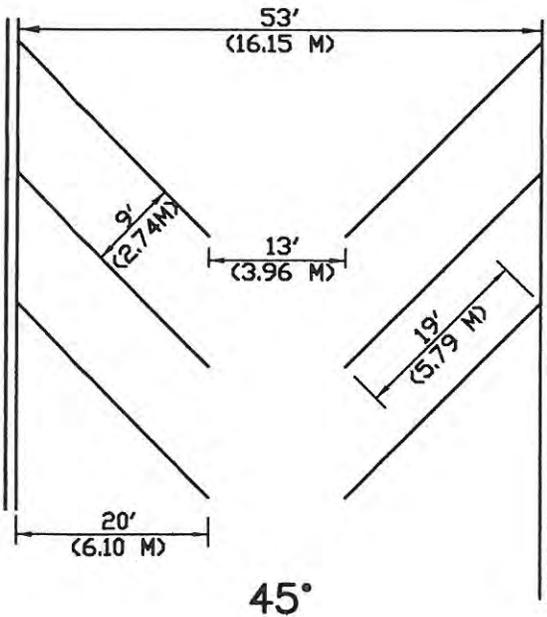
CITY OF PACIFIC GROVE			
STANDARD DETAILS FOR STREET IMPROVEMENTS			
MONUMENT			
DESIGNED BY	TITLE	DATE	DETAIL No.
AP	No. 29411	11/3/10	118
CHECKED BY	APPROVED EXP.	CITY ENGINEER	RCE NO. 29411
	<i>Man W. Jow</i>		





NOTE:

REFER TO TITLE 24 ADA REQUIREMENTS FOR ADA PARKING



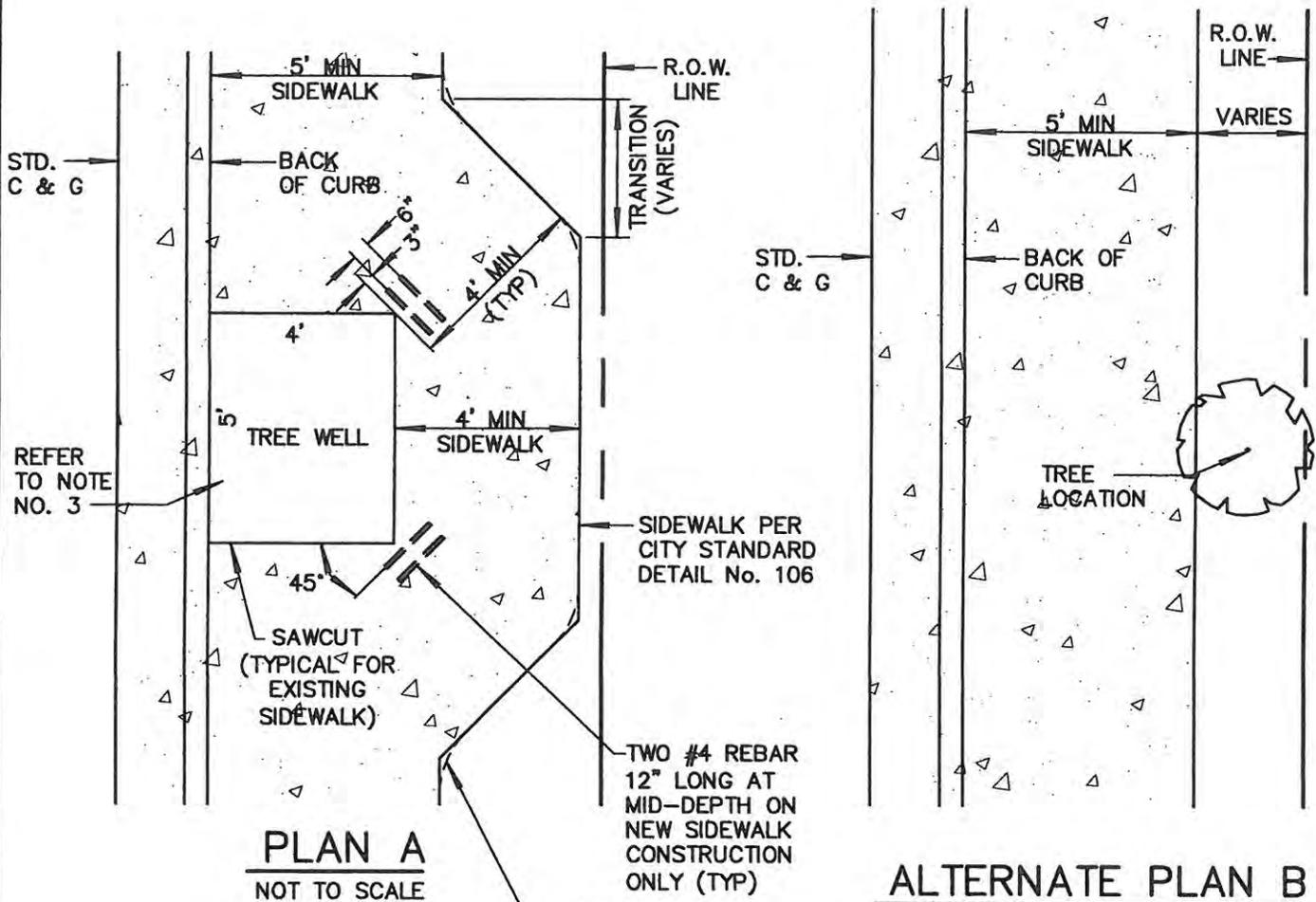
CITY OF PACIFIC GROVE
 STANDARD DETAILS FOR STREET IMPROVEMENTS
 PARKING LAYOUTS

DESIGNED BY
 AP
 CHECKED BY

TITLE No. 29411
 APPROVED: *[Signature]*
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 CITY ENGINEER

DATE 11/3/10
 RCE NO. 29411

DETAIL No. 120



PLAN A
NOT TO SCALE

ALTERNATE PLAN B
NOT TO SCALE

NOTES:

1. FOR STREET TREE PLANTING SEE CITY STANDARD DETAIL NO. 121.
2. TREE WELL SHALL BE 5' X 4' MINIMUM RECTANGLE UNLESS SIDEWALK WIDTH CANNOT BE ARCHIVED.
3. UNLESS OTHERWISE SPECIFIED IN THE SPECIFICATIONS AND/OR PLANS ALL PLACEMENT OF TREE WELL LOCATIONS SHALL BE AS FOLLOWS:
 - A. MIN. OF 40' FROM THE POINT OF INTERSECTION OF CURB LINE (P.I.)
 - B. MIN. OF 40' FROM THE TRAFFIC SIGNAL POLES.
 - C. MIN. OF 15' FROM COMMERCIAL DRIVEWAYS AND 10' FROM RESIDENTIAL DRIVEWAYS.
 - D. MIN. OF 25' FROM CATCH BASINS, SANITARY SEWER MAINS AND LATERALS, AND MANHOLES.
 - E. MIN. OF 5' FROM WATER METERS, WATER LINES, GAS LINES, STORM DRAIN LINES, AND UNDERGROUND ELECTRICAL LINES.
 - F. MIN. OF 10' FROM FIRE HYDRANTS.
 - G. MIN. OF 20' FROM STREET LIGHT POLES.
 - H. MIN. OF 10' FROM UTILITY POLES.
 - I. SPECIES OF TREE AND SPACING SHALL BE DETERMINED BY CITY FORESTER.

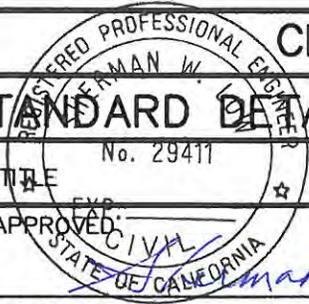
OPTION:
CURVED
TRANSITION

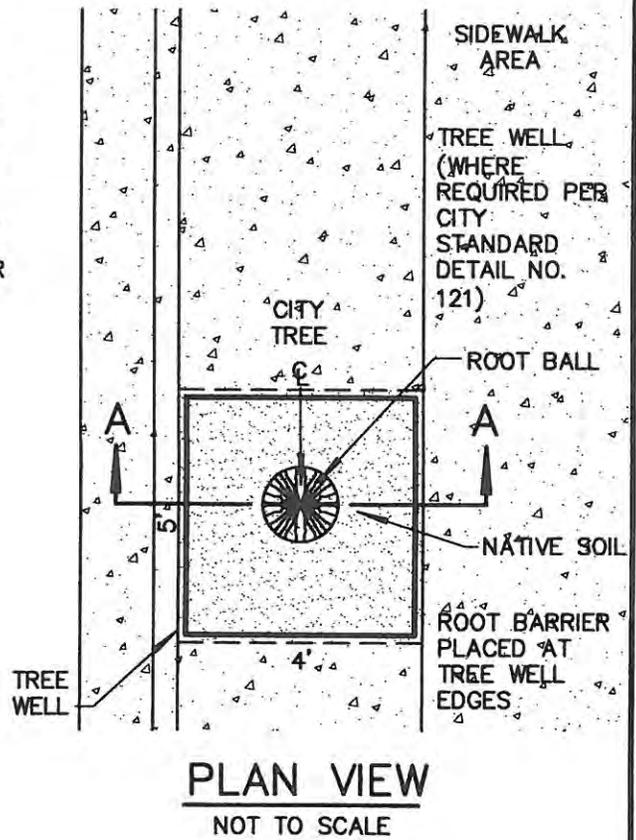
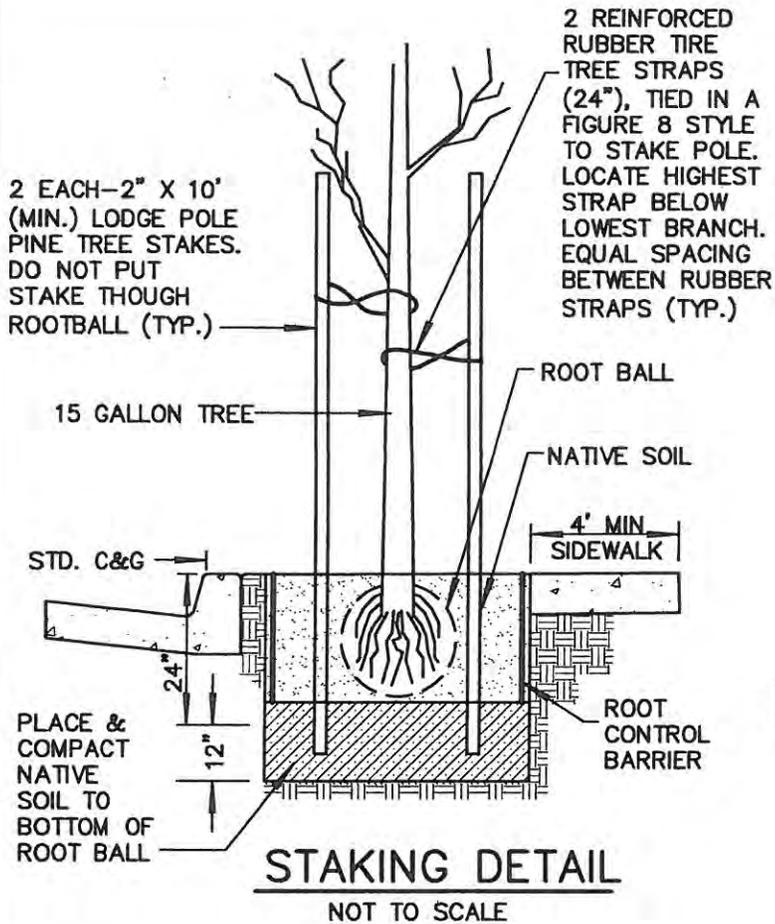
CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

TREE WELL

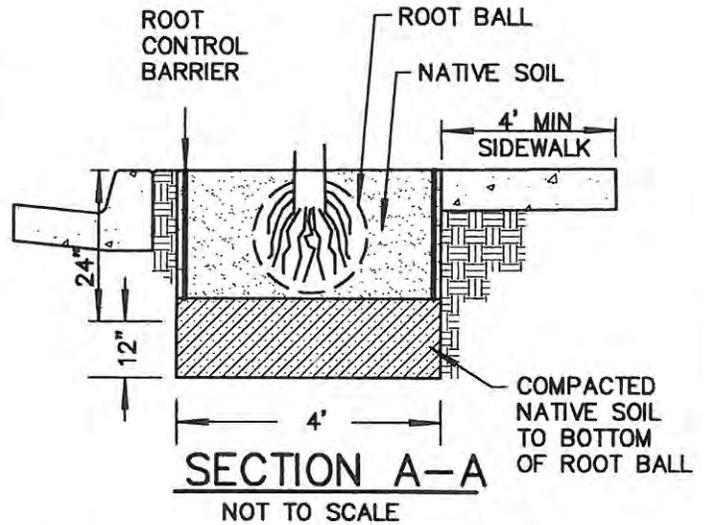
DESIGNED BY	AP	DATE	11/3/10	DETAIL No.	121
CHECKED BY	AP	CITY ENGINEER	RCE NO. 29411		





NOTES:

1. ALL STREET TREES SHALL BE 15 GALLON AND MEET THE AMERICAN STANDARD FOR NURSERY, OR AS DIRECTED BY THE CITY FORESTER. TREE SHOULD STAND UPRIGHT WITHOUT STAKES.
2. ROOT CONTROL BARRIERS SHALL BE "UNIVERSAL ROOT BARRIER PANELS," ROOT CONTROL PLANTER BY DEEP ROOT® (OR APPROVED EQUAL).
3. NATIVE SOIL SHALL BE PLACED IN THE PLANTING HOLE AND COMPACTED TO THE BOTTOM OF THE ROOT BALL. PLANT TREE BACKFILL WITH NATIVE SOIL, AND COMPACT.
4. AFTER PLANTING, TREE SHALL BE WATERED WITH 20 GALLONS OF WATER. REPEAT WATERING TWICE IN NEXT 7 DAYS, AT 48 HOURS INTERVALS.
5. CITY STREET TREE PLANTING SHALL INCLUDE TREE PLANTING IN TREE WELLS PARKING PLANTER STRIPS, OR BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE.



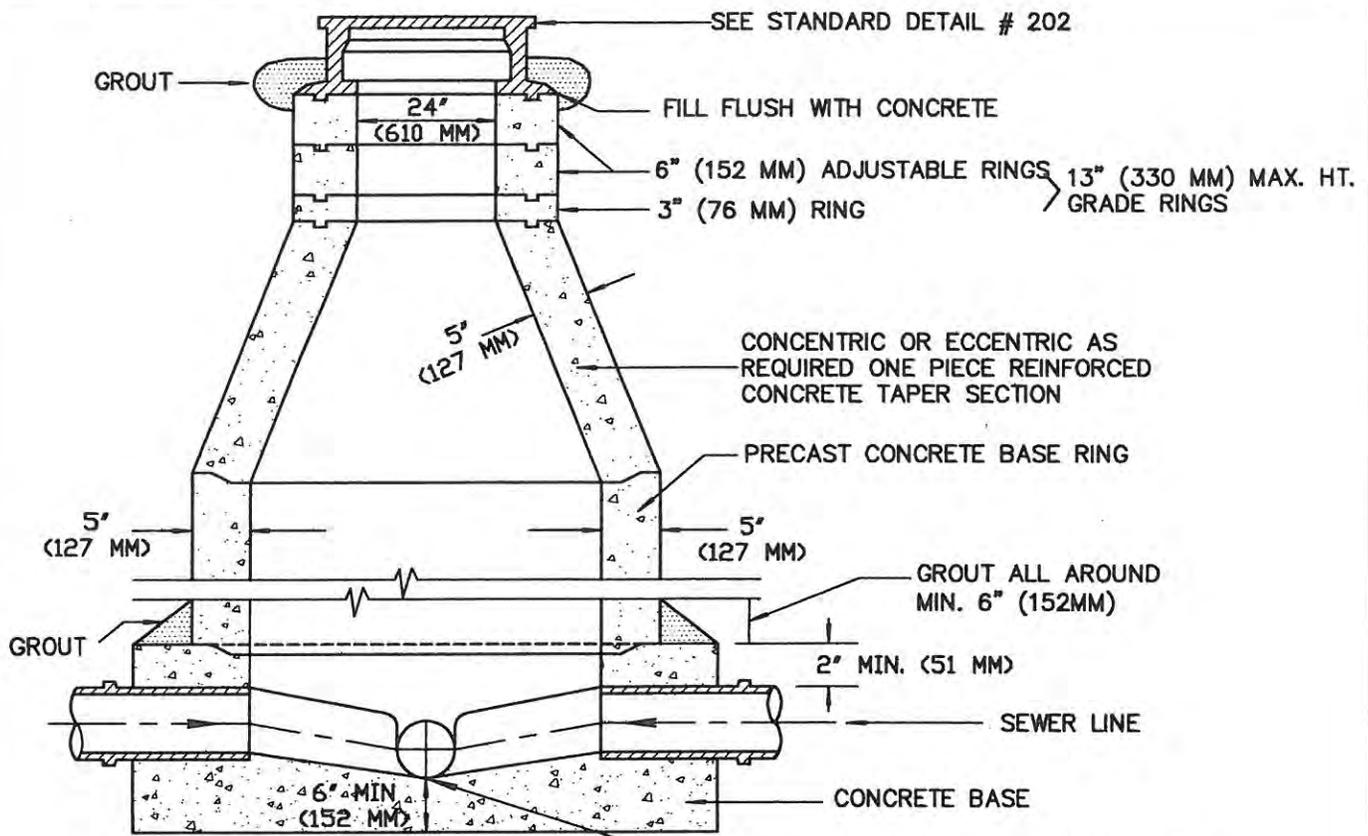
6. THE ROOT CONTROL BARRIER MAY BE DELETED DUE TO SPECIAL CONDITIONS IF APPROVED BY THE CITY FORESTER.

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

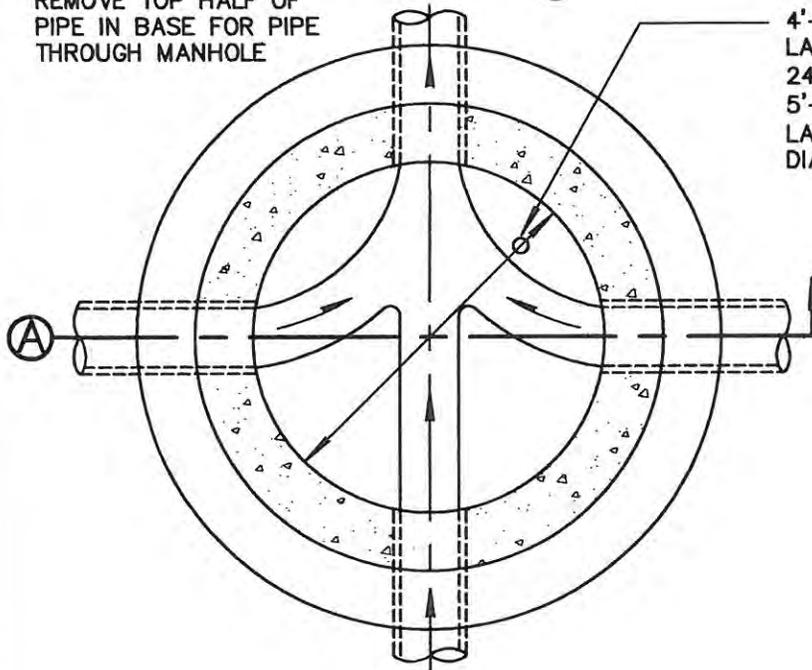
STREET TREE PLANTING

DESIGNED BY	TITLE No. 29411		DATE	DETAIL No.
DRAWN BY AP	APPROVED	CITY ENGINEER	11/3/10	1 2 2
CHECKED BY	CITY ENGINEER		RCE NO. 29411	



SECTION A

REMOVE TOP HALF OF PIPE IN BASE FOR PIPE THROUGH MANHOLE



PLAN

4'-0" (1.22 M) DIAMETER WHERE LARGEST PIPE IS SMALLER THAN 24" (610 MM) DIA.
 5'-0" (1.52 M) DIAMETER WHERE LARGEST PIPE IS 24" (610 MM) DIA. OR LARGER

NOTES:

1. CAST-IN-PLACE CONCRETE SHALL BE 3000 PSI. (210 KG/SQ. CM) PORTLAND CEMENT CONCRETE.
2. ALL JOINTS SHALL BE BEDDED IN MASTIC SEALER AND CEMENT MORTARED.
3. FIRST JOINT ON ALL PIPES SHALL BE 1 FT. (305 MM) MAX. OUTSIDE OF MANHOLE BASE.
4. RISER SECTION SHALL BE REINFORCED PRECAST CONCRETE COMPLYING WITH ASTM C-478.

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

STANDARD MANHOLE

DESIGNED BY

W. J. FOWLER
 No. 29411

DRAWN BY
 AP

APPROVED

W. J. FOWLER
 CIVIL ENGINEER
 STATE OF CALIFORNIA

DATE

11/3/10

DETAIL No.

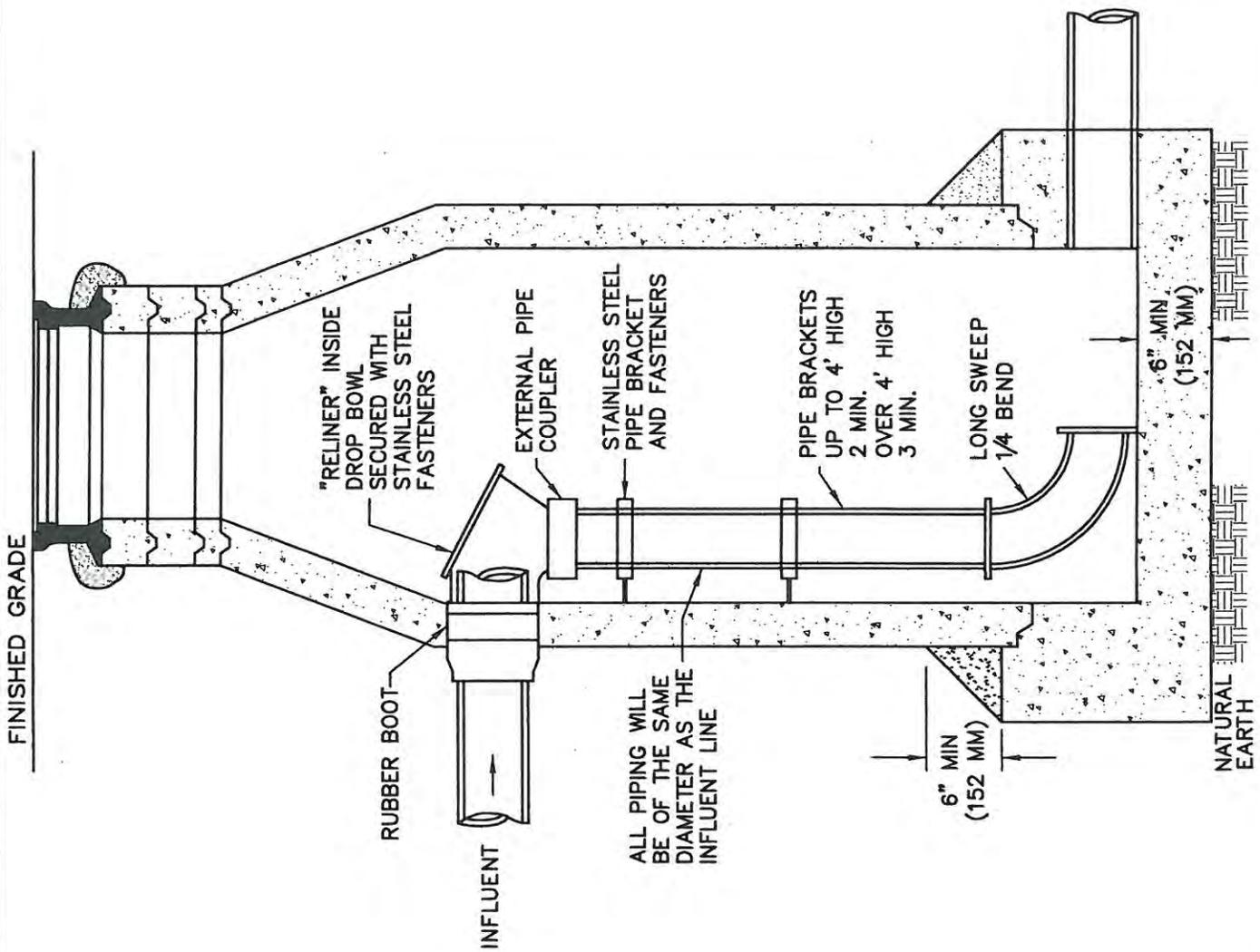
200

CHECKED BY

CITY ENGINEER

RCE NO. 29411





NOTES:

1. SEE STANDARD MANHOLE FOR MORE DETAILS.
2. MUST HAVE CITY ENGINEER APPROVAL FOR USE.

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

CONCRETE INTERNAL DROP MANHOLE

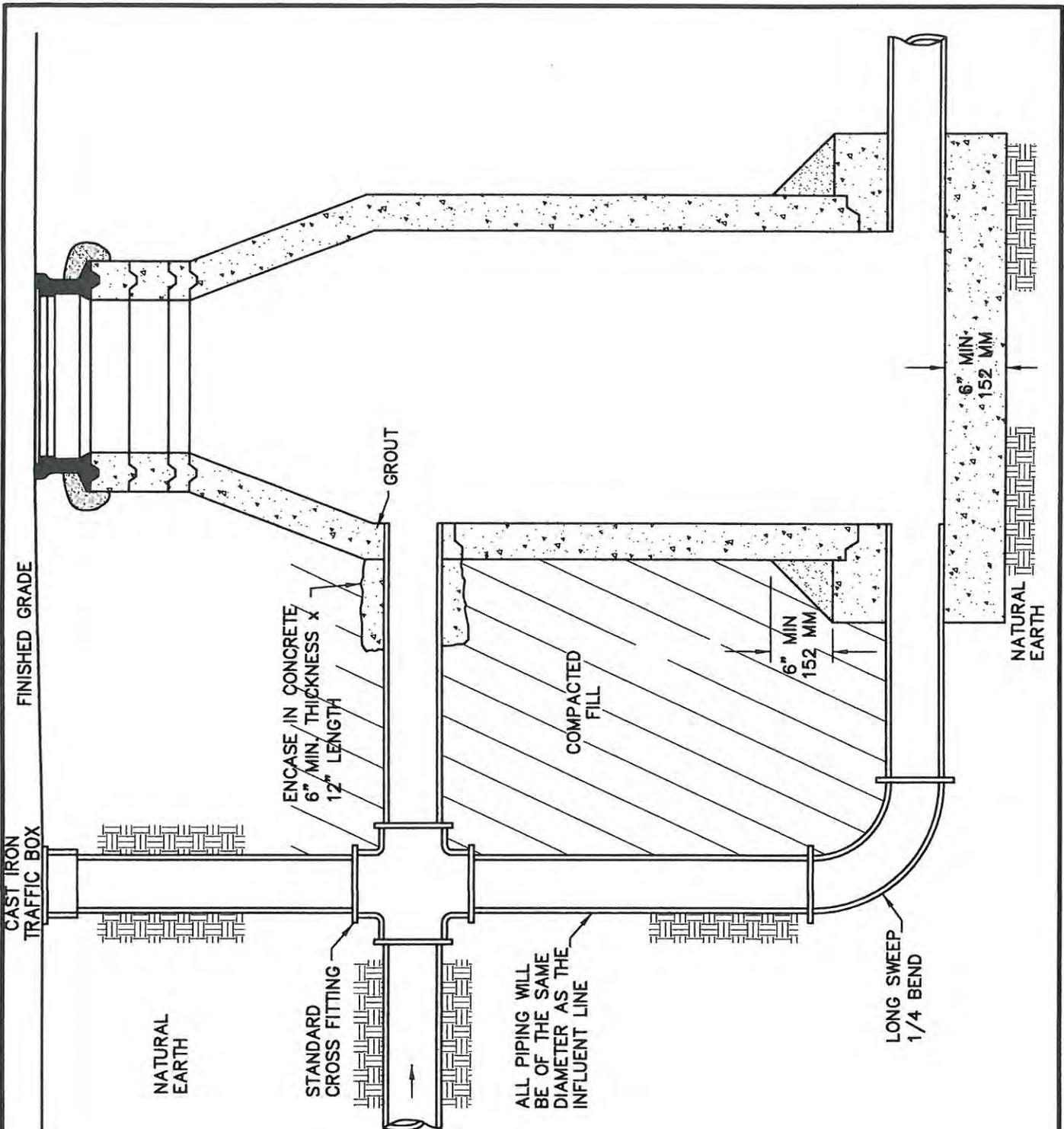
DESIGNED BY
DRAWN BY
AP
CHECKED BY

REGISTERED PROFESSIONAL ENGINEER
FERMAN W. JOWL
No. 29411
CIVIL
STATE OF CALIFORNIA

APPROVED: *Ferman W. Jowl*
CITY ENGINEER

DATE
11/3/10
RCE NO. 29411

DETAIL No.
201A



NOTE:

1. SEE STANDARD MANHOLE FOR MORE DETAILS AND NOTES
2. MUST HAVE CITY ENGINEER APPROVAL FOR USE.

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

CONCRETE EXTERNAL DROP MANHOLE

DESIGNED BY

DRAWN BY
AP

CHECKED BY

TITLE No.

APPROVED

CITY ENGINEER

DATE

11/3/10

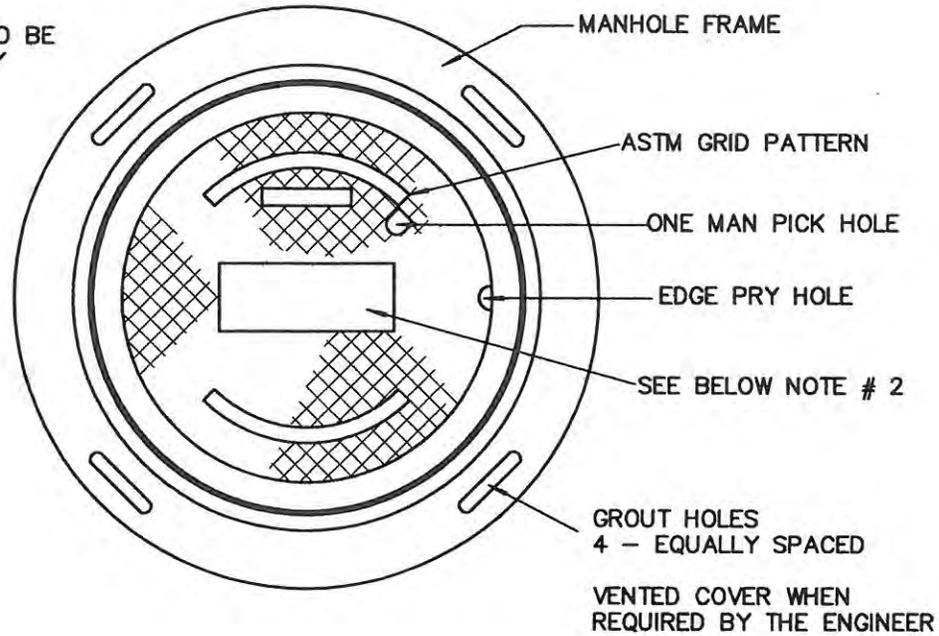
DETAIL No.

201B

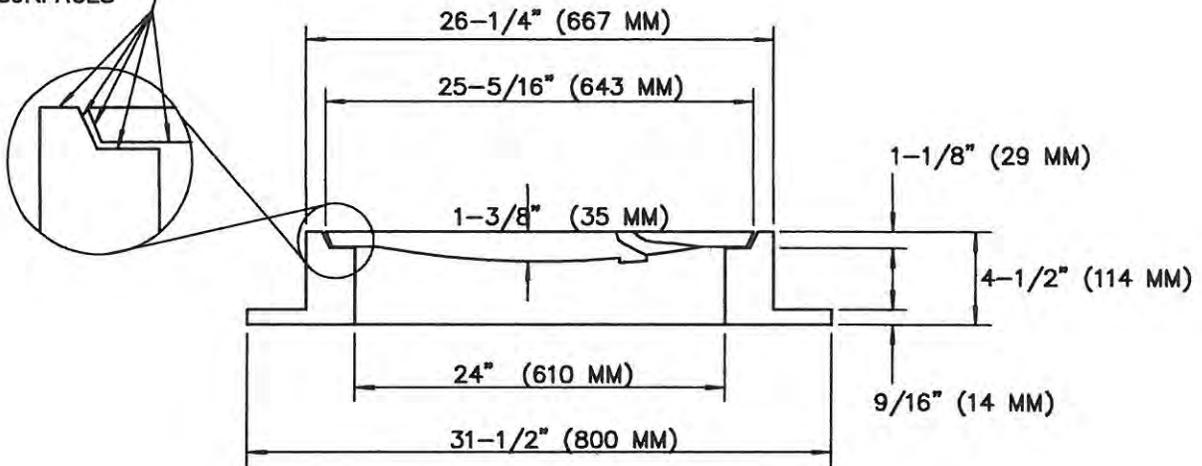
RCE NO. 29411



MANHOLE COVER TO BE
EXTRA HEAVY DUTY



MACHINED
SURFACES



NOTES:

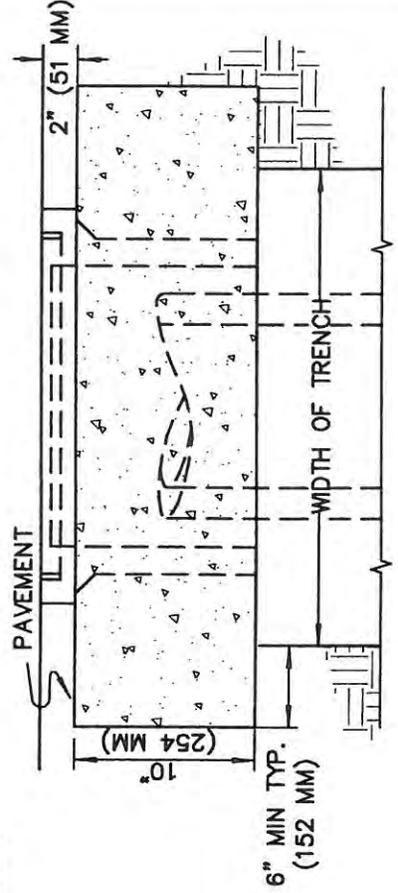
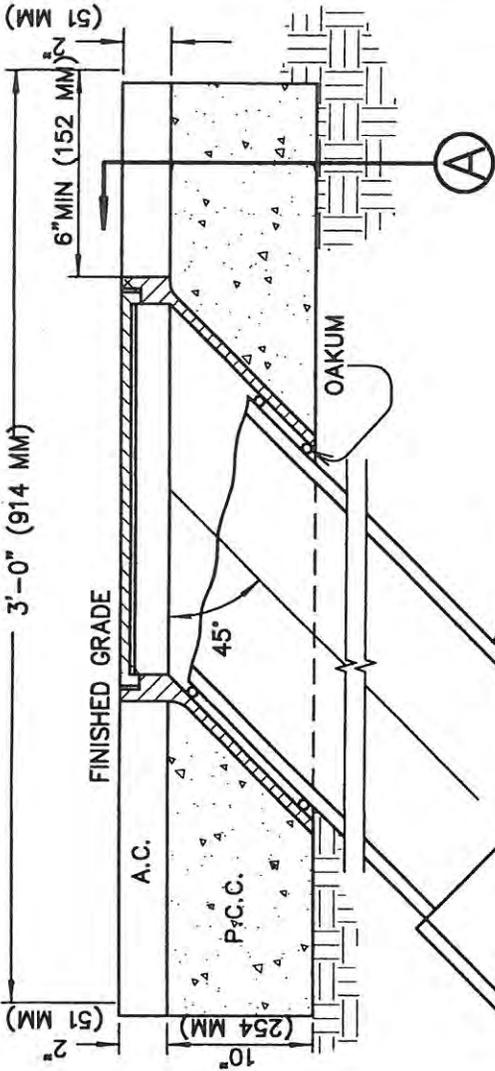
1. USE D&L MANHOLE A-1024 EXTRA HEAVY DUTY
NON-ROCKING FRAME & COVER OR APPROVED EQUAL.
2. TOTAL SET WEIGHT 320 LBS (146 KG).
3. USE APPROPRIATELY MARKED COVER, "SANITARY SEWER"
OR STORM SEWER".
4. CASTING DIPPED IN ASPHALT PAINT.
5. FRAME AND COVER EXCEEDS H-20 WHEEL LOADING.

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

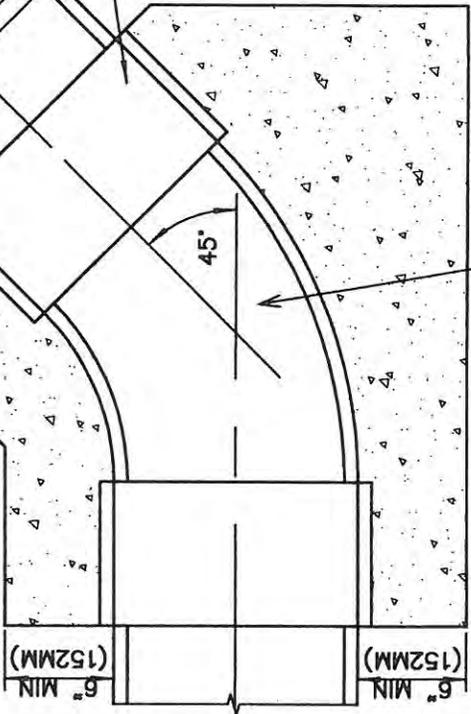
MANHOLE FRAME AND COVER

DESIGNED BY	TITLE No. 29411	DATE	DETAIL No.
DRAWN BY AP	APPROVED <i>John W. Fowl</i>	11/3/10	202
CHECKED BY	CITY ENGINEER	RCE NO. 29411	



SECTION A

- NOTES:**
1. PIPE NOT TO BE RIGID WITH FRAME.
 2. MINIMUM WEIGHT OF CASTING 125 LBS. (58 kg) PINKERTON A-211 OR EQUAL.
 3. PCC CONCRETE SHALL BE 3000 P.S.I. MIN.



45° LONG RADIUS BEND

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

CLEAN - OUT

DESIGNED BY

TITLE No. 29411

DRAWN BY AP

APPROVED

DATE

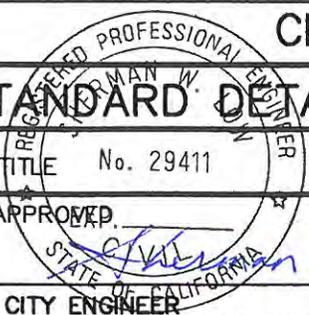
DETAIL No.

CHECKED BY

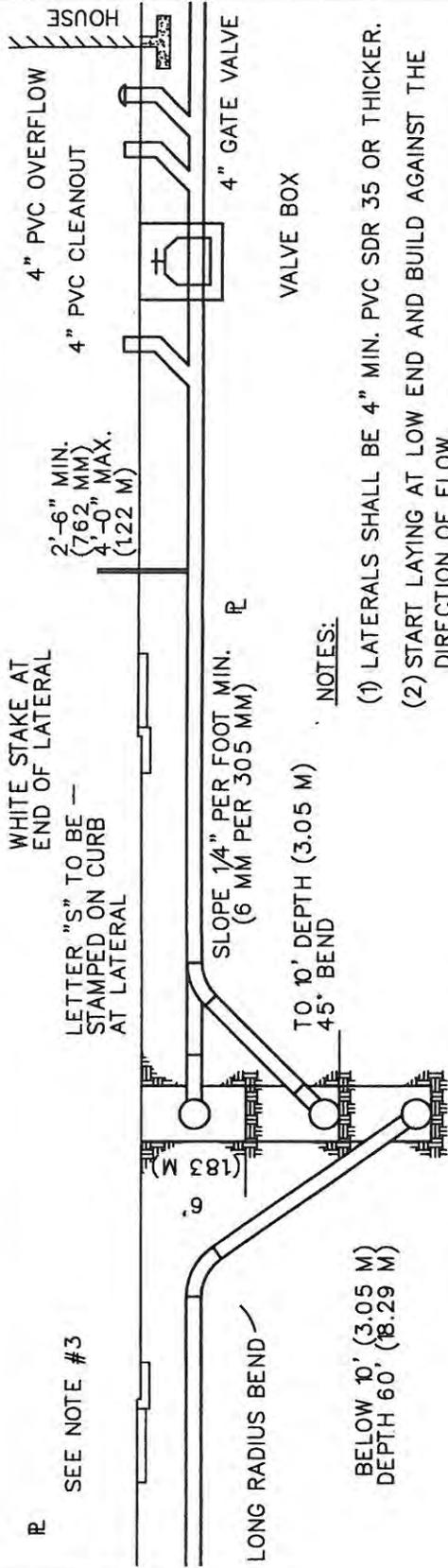
CITY ENGINEER

RCE NO. 29411

203



11/3/10

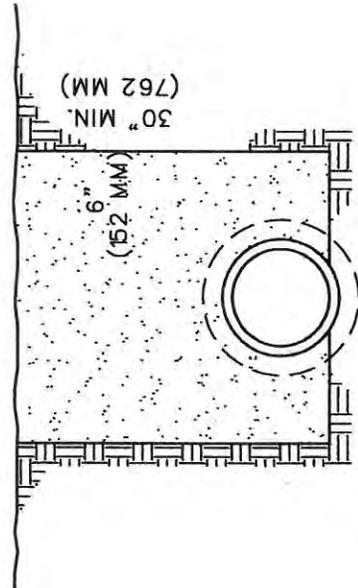


NOTES:

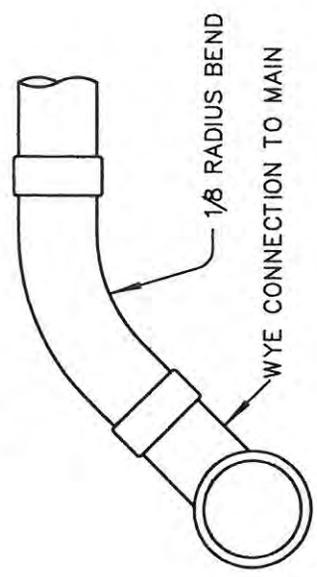
- (1) LATERALS SHALL BE 4" MIN. PVC SDR 35 OR THICKER.
- (2) START LAYING AT LOW END AND BUILD AGAINST THE DIRECTION OF FLOW.
- (3) NO TUNNELING UNDER CURB, GUTTER, AND SIDEWALK.
- (4) CLEANOUTS AND OVERFLOW DEVICES SHALL EXTEND 3" ABOVE EXIST. GRADE.
- (5) THE GATE VALVE AND VALVE BOX SHALL BE LOCATED AT THE LOWEST POINT OF GROUND ELEVATION ALONG THE ALIGNMENT OF THE LATERAL.
- (6) THE GATE VALVE SHALL HAVE CLEANOUTS LOCATED DIRECTLY UPSTREAM AND DOWNSTREAM OF THE VALVE.
- (7) THE OVERFLOW DEVICE SHALL BE INSTALLED AT THE LOWEST POINT OF GROUND ELEVATION BETWEEN THE BUILDING AND THE GATE VALVE.

LATERAL CONNECTION

2 SACK SLURRY OR SAND BACKFILLS COMPACTED IN 12" (305 MM) LAYERS TO 95% MIN. RELATIVE COMPACTION



BOTTOM SHAPED FOR LOWER QUADRANT OF PIPE AND SOCKETS



TYPICAL CONNECTION

REVISED SEPTEMBER 2005

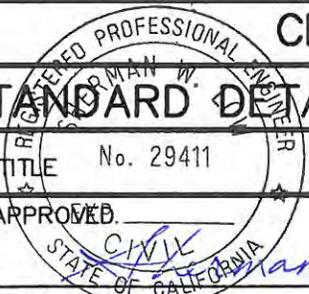
CITY OF PACIFIC GROVE
STANDARD DETAILS FOR STREET IMPROVEMENTS
WYE AND LATERALS

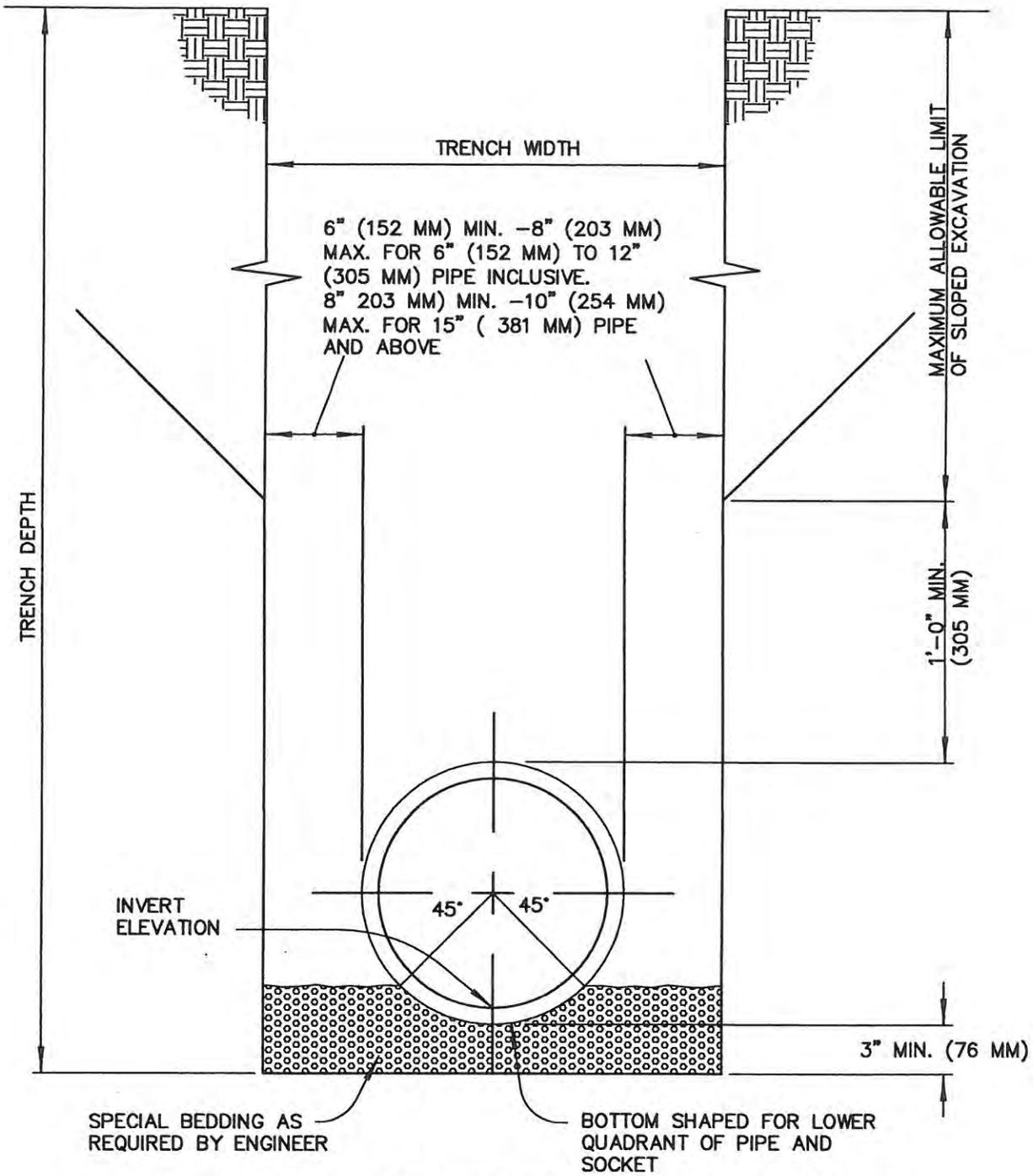
DESIGNED BY
 DRAWN BY
 AP
 CHECKED BY

TITLE No. 29411
 APPROVED
 CIVIL
 STATE OF CALIFORNIA
 CITY ENGINEER

DATE
 11/3/10
 RCE NO. 29411

DETAIL No.
204





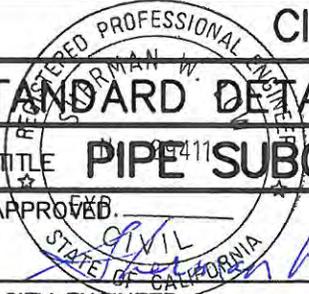
NOTES: MINIMUM SIZE PIPE IS 8" DIA. (203 MM) EXCEPT WHERE SMALLER PIPE IS APPROVED BY CITY ENGINEER.

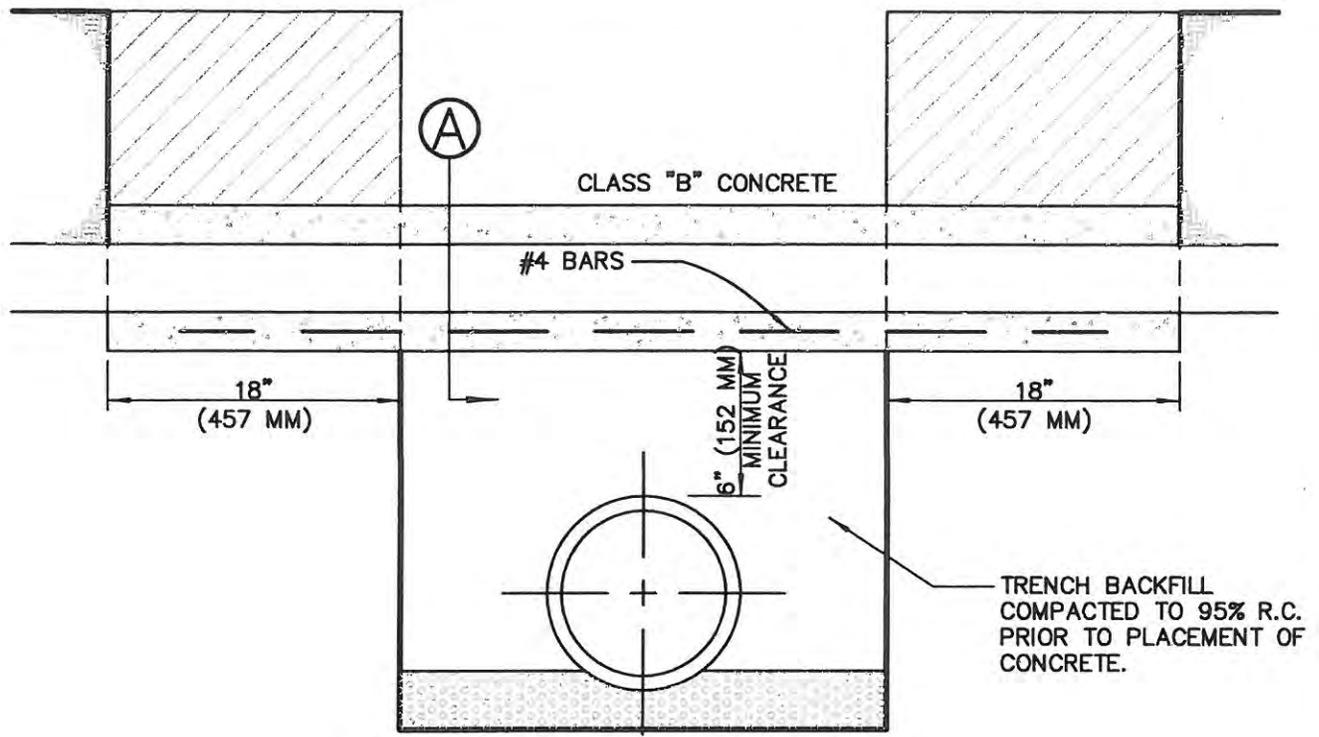
REVISED SEPTEMBER 2005

CITY OF PACIFIC GROVE

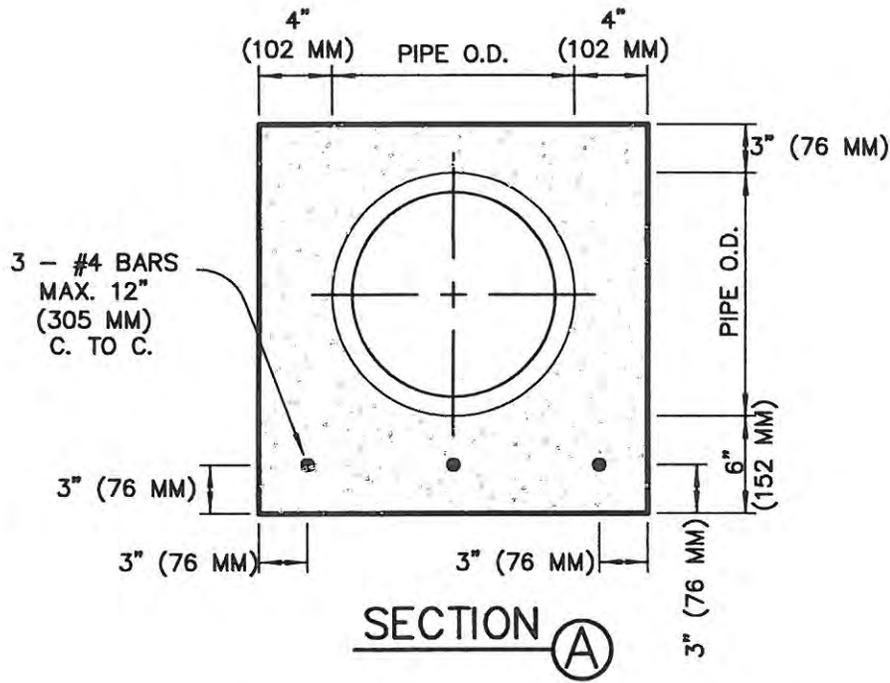
STANDARD DETAILS FOR STREET IMPROVEMENTS

DESIGNED BY	TITLE PIPE SUBGRADE FOR SEWER & STORM DRAIN		
DRAWN BY AP	APPROVED	DATE	DETAIL No.
CHECKED BY	<i>W. J. W.</i>	<i>11/3/10</i>	205
	CITY ENGINEER	RCE NO. 29411	





LATERAL CONNECTION



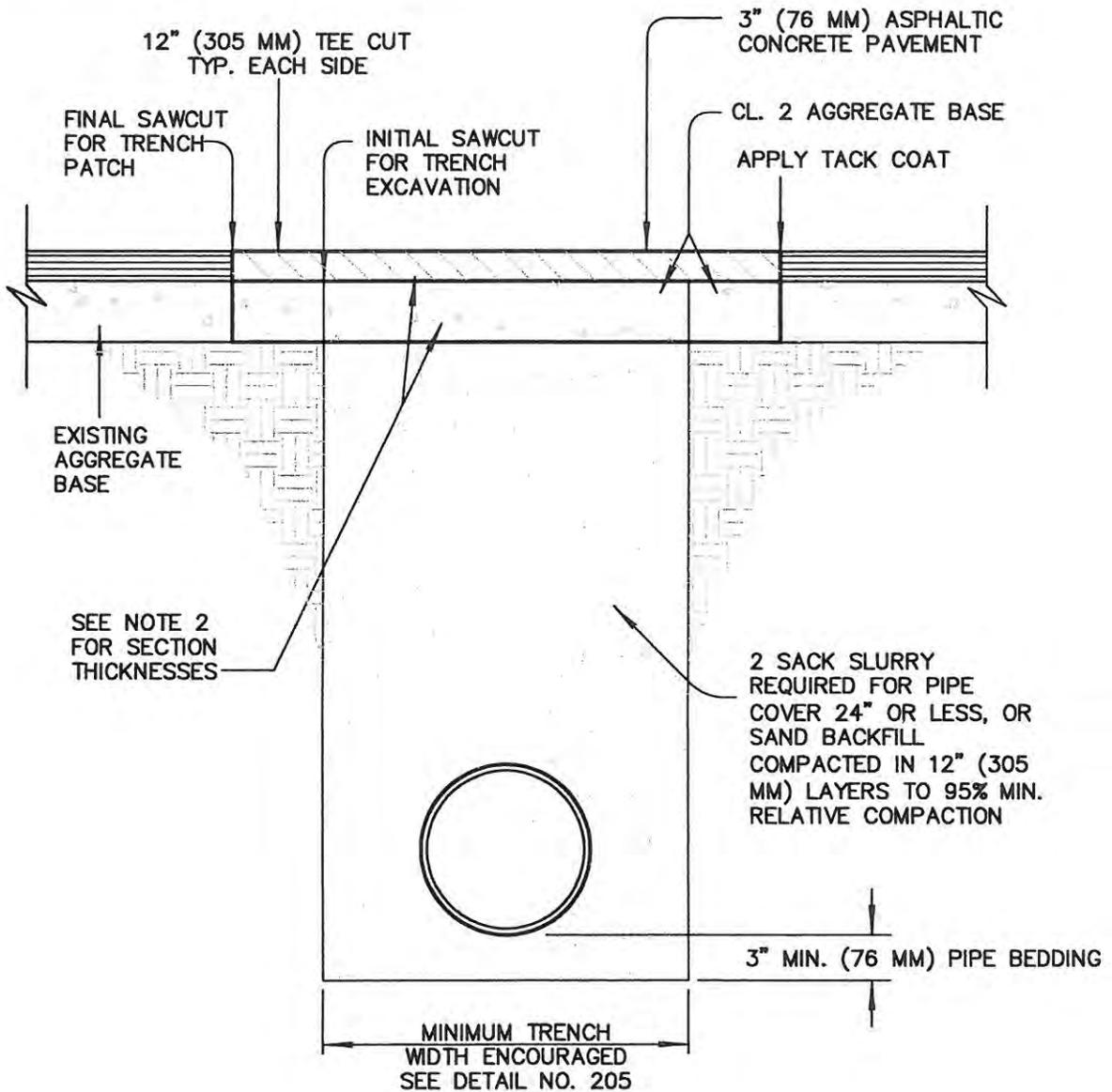
NOTE: REQUIREMENT SUBJECT TO UNDERCUT PIPE CONDITION AND SITUATION.

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

DESIGNED BY	TITLE CONCRETE SUPPORT FOR UNDERCUT PIPE		DATE	DETAIL No.
DRAWN BY AP	APPROVED	<i>Man W. Jow</i>	11/3/10	206
CHECKED BY	CITY ENGINEER	RCE NO. 29411		





NOTES:

1. SAWCUTS REQUIRED FOR ALL PATCHES
2. DEPTH OF SUBGRADE FOR TRENCH PATCH SHALL MATCH THE EXISTING THICKNESS OF ASPHALT CONCRETE AND AGGREGATE BASE. IN NO CASE SHALL THE TRENCH PATCH BE LESS THAN 3" (76 MM) ASPHALT CONCRETE AND 6" (152 MM) CLASS 2 AGGREGATE BASE. ASPHALT CONCRETE AND CLASS 2 AGGREGATE BASE SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS.
3. SAND BACKFILL TO BE VIBRATORY COMPACTED AT OPTIMUM MOISTURE CONTENT TO 95% RELATIVE COMPACTION. CONTRACTOR SHALL PROVIDE FOR COMPACTION TESTING AND SUBMIT FINAL RESULTS TO CITY ENGINEER .
4. 2 SACK SLURRY CEMENT BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 19, "EARTHWORK" OF CALTRANS STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED BY CITY ENGINEER.
5. CITY ENGINEER MAY REQUIRE OUTLET FOR TRENCH BOTTOM WHEN WATER BUILD UP OCCURS.

CITY OF PACIFIC GROVE

STANDARD DETAILS FOR STREET IMPROVEMENTS

TITLE **TRENCH SECTION & PAVEMENT REPLACEMENT**

DESIGNED BY

TITLE

DRAWN BY
AP

APPROVED

DATE

DETAIL No.

CHECKED BY

CITY ENGINEER

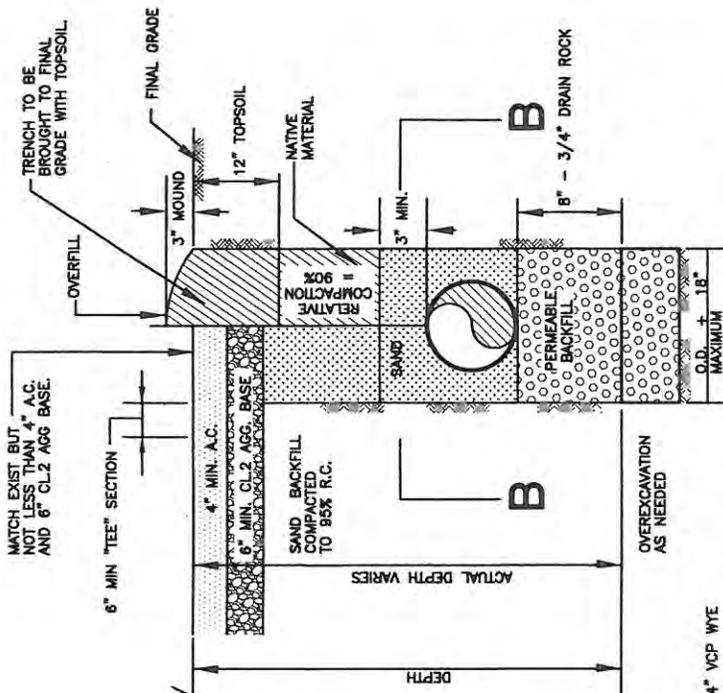
RCE NO. 29411

207



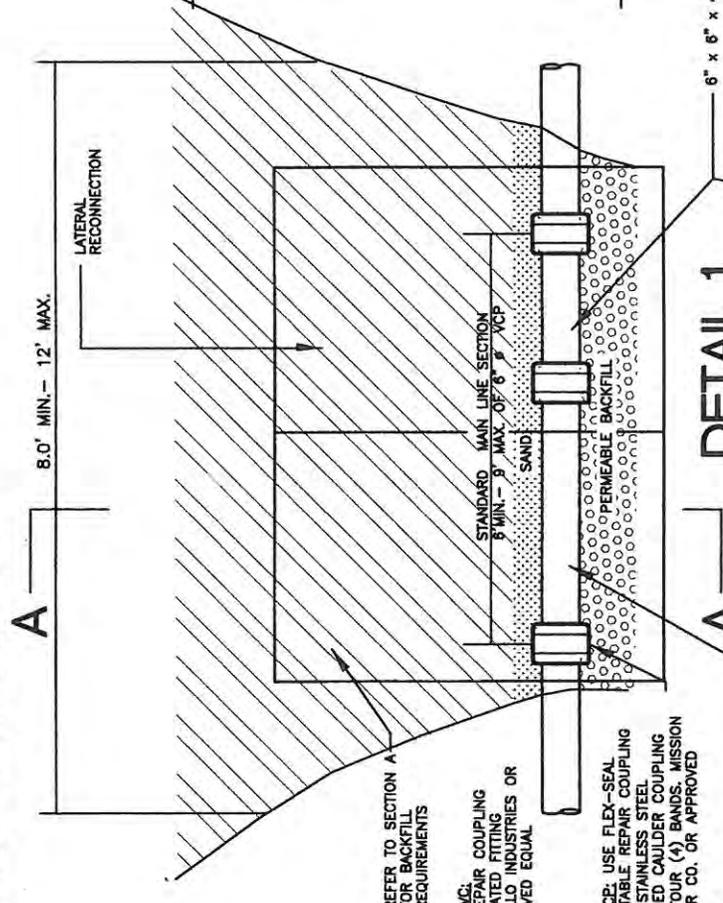
11/3/10

NOTE: LANDSCAPING AND DISTURBED OR DAMAGE AREAS SHALL BE REPLACED IN KIND BY THE CONTRACTOR.

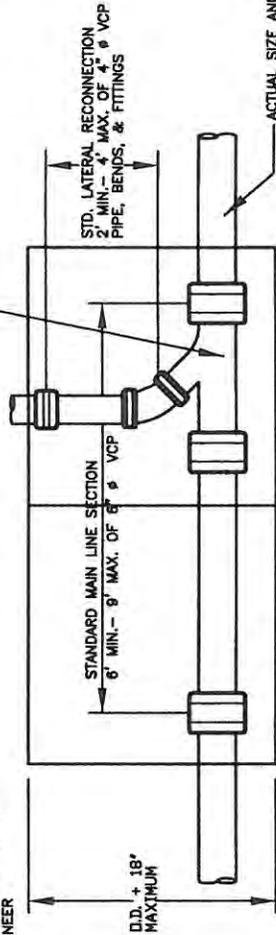


* DEPTH IS MEASURED FROM THE SURFACE OF PAVEMENT OR GROUND TO THE BOTTOM OF THE EXCAVATION OR OVEREXCAVATION

SECTION A
NOT TO SCALE



DETAIL 1
REPAIR TRENCH BACKFILL



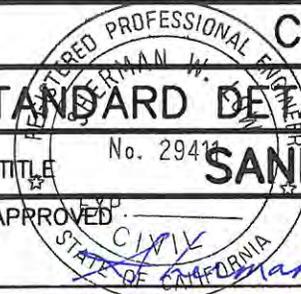
SECTION B
NOT TO SCALE

CITY OF PACIFIC GROVE
STANDARD DETAILS FOR STREET IMPROVEMENTS

DESIGNED BY: TITLE No. 29411
SANITARY SEWER SPOT REPAIR

DRAWN BY: AP APPROVED: CIVIL ENGINEER
CITY ENGINEER

DATE: 11/3/10
DETAIL No. 208
RCE NO. 29411



APPENDIX 5C

Contract with City of Seaside for Engineering Support Services



AGREEMENT FOR SERVICES

THIS AGREEMENT is entered into on this 23rd of July, 2012, by and between the CITY OF SEASIDE, a municipal corporation, (hereinafter referred to as "Seaside") and the CITY OF PACIFIC GROVE, a municipal corporation (hereinafter referred to as "Pacific Grove").

WITNESSETH

WHEREAS, Pacific Grove has need for experienced and capable engineers to provide project management and engineering services for Capital Improvement Program projects, and

WHEREAS, Seaside has an Engineering Division with personnel (herein "Engineers") available to provide project management and engineering services sought by Pacific Grove, as defined above and in the Scope of Services, attached hereto as "Exhibit A", and incorporated by reference, and therefore Seaside desires and agrees to provide Engineers to provide such services to Pacific Grove.

NOW, THEREFORE, THE PARTIES HERETO DO MUTUALLY AGREE AS FOLLOWS:

1. TERM

A. The term of this Agreement is from July 1, 2012 through June 30, 2014, unless sooner terminated pursuant to the terms of this Agreement. This Agreement is of no force or effect until signed by both SEASIDE and PACIFIC GROVE. SEASIDE may not commence work before both parties have signed.

2. SCOPE OF SERVICES

A. PACIFIC GROVE hereby contracts for an Engineer to provide services to the City of Pacific Grove as defined in the Scope of Services set forth in Exhibit A, attached hereto and incorporated by reference.

3. COMPENSATION/SERVICE RATES

A. Pacific Grove agrees to pay Seaside monthly to cover all associated benefits, compensation, and expenses relating to the specific Engineer, not to exceed \$80,000 for the length of this contract.

B. Seaside shall submit to Pacific Grove an invoice on a form acceptable to the City of Pacific Grove.

C. Engineer is entitled to observe the following holidays: New Years Day, Martin Luther King Day, Presidents Day, Cesar Chavez Day, Memorial Day, Fourth of July, Labor Day, Veteran's Day, Thanksgiving Day, Post Thanksgiving Day, Christmas Eve, and Christmas Day.

D. Seaside shall submit monthly billing invoices to Pacific Grove for the Engineer's services and payment shall be due upon receipt by Pacific Grove.

E. If any invoice is not paid within a period of thirty (30) days from receipt, then Pacific Grove shall pay Seaside interest on any unpaid balance at the State of California Local Agency Investment Fund interest rate from the thirtieth (30th) day after receipt until paid.

4. GENERAL ADMINISTRATION AND MANAGEMENT

A. Each City's City Manager, or its designee, shall have the primary administrative responsibility under this Agreement for each agency.

B. The Pacific Grove Public Works Superintendent and the Seaside City Engineer shall regularly discuss aspects of performance and related issues pertaining to the Engineers pursuant to this Agreement.

5. WAGES AND SUPERVISION OF THE CHIEF

A. The Engineers, at all times during this Agreement, are and shall remain an employee of Seaside only.

B. The Engineers shall adhere to the personnel rules, regulations and policies of Seaside and Pacific Grove.

6. RENEWAL AND SERVICE RATE INCREASE

Pacific Grove agrees that Seaside shall have the right to increase the service rate provided herein to cover all associated benefits and expenses relating to the Engineers employment and current contract. If the increase is to be more than five percent (5%), Pacific Grove may cancel the unexpired term of this Agreement effective on the date of the proposed rate increase by notifying Seaside within ten (10) days of the notice date of the rate increase.

7. SUSPENSION/TERMINATION OF AGREEMENT

This Agreement may be terminated with or without cause by either party upon ninety (90) days written notice delivered as set forth in this Agreement.

8. ASSIGNMENT

This Agreement may not be assigned or otherwise transferred by either party hereto without the prior written consent of the other party.

9. INDEMNIFICATION

A. Except as otherwise set forth herein, Pacific Grove agrees to indemnify, defend, and save harmless Seaside, its respective elected and appointed officials, officers, agents, servants and employees, from and against all claims, losses, actions, damages, expenses and liabilities, including reasonable acts or omissions, to the extent those acts or omissions related to the provision of construction and project management services for Pacific Grove under this Agreement in accord

with the Scope of Services set forth in Exhibit A, attached hereto and incorporated by reference.

B. Seaside agrees to indemnify, defend and save harmless Pacific Grove, its respective elected and appointed officials, officers, agents, and employees, for any acts of sole negligence or willful misconduct by Seaside, its officers or employees, including the City of Seaside's Engineers, excepting actions of the Engineers contracted by Pacific Grove when performing services within the scope set forth in Exhibit A, attached hereto and incorporated by reference.

C. Each party shall maintain in force at all times during the performance of this Agreement a policy of insurance covering all of its operations (including public liability and property damage) naming the other party as an additional insured, with not less than \$5,000,000.00 single limit liability and motor vehicle insurance, covering all motor vehicles (whether or not owned) used in providing services under this Agreement, with a combined single limit of not less than \$1,000,000.00. Notice in writing shall be given at least thirty (30) days in advance of cancellation thereof. Insurance shall be through an organization authorized by law to transact insurance business in the State of California.

D. Policies shall also be endorsed to provide such insurance as primary insurance and that no insurance of an additional insured shall be called on to contribute to a loss covered by insurance.

E. Any insurance required of either party to this Agreement may be provided by a plan of self-insurance and/or a public entity risk sharing agreement at the option of the party, or through an insurance pool.

10. WORKERS' COMPENSATION

Each party certifies that it is aware of the provisions of the Labor Code of the State of California, 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 it certifies that it will comply with such provisions before commencing performance under this Agreement. The Engineer is an employee of Seaside and shall be covered under Seaside's workers' compensation plan. Pacific Grove shall be responsible for reimbursing the City of Seaside for all costs of any new workers' compensation claims incurred by the Engineer within the City of Pacific Grove, or while en route to the City of Pacific Grove, that relate solely to the performance of the Engineers services for Pacific Grove, pursuant to this Agreement. Reimbursement shall be for the entire life of the claim(s) and shall include all costs of the claim including temporary disability, permanent disability, medical costs, and legal. Seaside is and shall continue to be responsible for the payment of any existing claims and any claims incurred while the Engineer is on duty and performing work as an employee of Seaside.

11. NOTICES

Any notice to be given to the parties hereunder shall be addressed as follows (until notice of a different address is given to the parties):

Pacific Grove: City Manager
City of Pacific Grove
300 Forest Avenue
Pacific Grove, CA 93950
With a copy to: City Clerk
City of Pacific Grove
300 Forest Avenue
Pacific Grove, CA 93950

Seaside: City Manager
City of Seaside
440 Harcourt Avenue
Seaside, CA 93955
With a copy to: City Clerk
City of Seaside
440 Harcourt Avenue
Seaside, CA 93955

Any and all notices or other communications required or permitted relative to this Agreement shall be in writing and shall be deemed duly served and given when personally delivered to either of the parties, Seaside or Pacific Grove, to whom it is directed or in lieu of such personal service, when deposited in the United States mail, first class, postage prepaid, addressed to Seaside or Pacific Grove at the addresses set forth above. Either party may change their address for the purpose of this paragraph by giving written notice of such change to the other party in the manner provided for in the preceding paragraph.

12. ATTORNEY'S FEES AND COURT VENUE

Should either party to this Agreement bring legal action against the other, (formal judicial proceeding, mediation or arbitration), the case shall be handled in Monterey County, California, and the party prevailing in such action shall be entitled to a reasonable attorney's fee which shall be fixed by the judge, mediator or arbitrator hearing the case and such fee shall be included in the judgment, together with all costs.

13. AGREEMENT CONTAINS ALL UNDERSTANDINGS: AMENDMENT

This document represents the entire and integrated Agreement between Seaside and Pacific Grove and supersedes all prior negotiations, representations and agreements either written or oral. This Agreement may be amended or modified only by an instrument in writing, signed by both parties.

14. GOVERNING LAW

This Agreement shall be governed by the laws of the State of California, and is entered into in Monterey County, California.

15. SEVERABILITY

If any term of this Agreement is held invalid by a court of competent jurisdiction the remainder of this Agreement shall remain in effect.

16. NON-EXCLUSIVE AGREEMENT

This Agreement is non-exclusive and Seaside expressly reserves the right to contract with other entities for the same or similar services.

17. COUNTERPARTS

This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same Agreement.

18. AMENDMENTS AND CHANGE ORDERS

This Agreement may be amended or modified as necessary only by instrument in writing or authorized changed order executed by the Pacific Grove City Manager and the Seaside City Manager.

19. INTERPRETATION OF CONFLICTING PROVISIONS

In the event of any conflict or inconsistency between the provisions of this Agreement and Scope of Services, Exhibit A, the provisions of this Agreement shall prevail.

IN WITNESS WHEREOF, the parties have executed this Agreement on the date first hereinabove written.

CITY OF PACIFIC GROVE
By: Thomas Frutchey
Thomas Frutchey
Purchasing Manager
Date: 8-20-12
By: Michael Zimmer
Michael Zimmer
Public Works Superintendent
Date: 8/17/12

CITY OF SEASIDE
By: Daphne Hodgson
Daphne Hodgson
Purchasing Manager
Date: 7/23/12
By: Tim O'Halloran
Tim O'Halloran
City Engineer
Date: 7/23/2012

Cities of Pacific Grove and Seaside
Engineering Services Agreement

Approved as to form

By: *David C. Laredo*
David C. Laredo
City Attorney

By: *Don Freeman*
Don Freeman
City Attorney

Date: *8/17/2012*

Date: *for Aug. 13, 2012*

By: *John Dunn*
John Dunn
Interim City Manager

Date: *Aug. 7, 2012*

EXHIBIT A

SCOPE OF SERVICE/PAYMENT PROVISIONS

SEASIDE shall provide construction and project management for City of Pacific Grove's capital improvement construction projects to ensure compliance with state laws, and the timely completion within contract obligations of the City of Pacific Grove.

The City shall pay SEASIDE under this Agreement shall not exceed \$80,000 for the length of this contract, ending June 30, 2014, and the City shall pay no more than \$40,000 per fiscal year in accordance with the terms of the Section 6.01 of this Agreement for completion of all work specified above.

Reviews plans and specifications of assigned projects; attends pre-construction conferences. Accepts change orders for review by the Director of Public Works. Prepare change orders for review by Construction Inspection Supervisor. Inspect materials for identification and conformance to specifications. Take samples of materials for examination or analysis by laboratories (as needed). Perform routine to complex field inspections of public improvement such as: grading (rough and final), construction and installation of public utilities, sanitary sewer facilities, storm drain facilities, fire protection facilities, street lighting systems, traffic signal systems, curbs, gutters and sidewalks, and survey monumentation. Observe all work, during and after completion; checking for line and grade, number and size, elevation and location of various items detailed in the approved plans. Monitor staffing level reports and payroll for compliance with contracts and regulations. Inspect various structures such as utilities, streets, sidewalks, gutters, and other off-site construction; check line, grade, size, elevation and location of structures for conformance with specifications and regulations. Records amounts of materials used and work performed; prepare necessary reports for progress payments. Indicate location of various appurtenances on plans. Inspect adjacent properties for damage from construction activity. Confer with property owners regarding project schedule, hazards, and inconvenience. Coordinate work with other City departments and utilities. Recommend in-field design additions, alteration, changes, and revisions as may be appropriate. Perform related duties as assigned.

Process, administers and monitors the City of Pacific Grove construction and maintenance contracts and development to insure compliance with wage, labor and apprenticeship laws and fair employment practices; and bonds, insurance and performance requirements. Insures compliance with the various requirements of contracts and agreements by initiating correspondence, tracking agreement time schedules, construction job-site interviews, payroll record reviews, processing bonding and security status reports, coordinating with various City departments, divisions and governmental agencies, processing covenants, liens, preliminary stop notices, notices of pending legal action, and various other contract documents. Interprets Federal, State and Local laws, rules and regulations as they relate to contract policies and procedures and evaluates these requirements and recommends changes in departmental programs as needed. Reviews and Apprenticeship programs Minority Business Enterprise, equal employment local hire and any other governmental programs pertaining to Public Works construction contracts. Insure compliance with all contract provisions. Monitor the contract compliance program to insure that objectives/goals are achieved. Reviews

minority monthly utilization reports from contractors and keeps an updated file of the percentage of disadvantaged minority and female goals on projects. Prepares and maintains a variety of records, reports and updated listing of Federal and State prevailing wage rates: when applicable maintains a central filing system; prepares corresponding contractor/vendor files and ensures incoming documents are filed appropriately. Monitor and analyze contractor/vendor payroll documentation. Performs non-compliance preliminary investigations and non-compliance follow-up investigations. Attends pre-construction meetings and review insurance, bonding, labor compliance requirements, and performance requirements with contractors. Monitor the contract compliance program to insure that objectives/goals are achieved. Investigate complaints alleging violations. Draft correspondence to contractors and any interested parties or agencies regarding contracts and agreement compliance and/or compliance problems. May calculate fees, fines and penalties; provide assistance to prospective contractors; evaluate, clarify and standardize contract terminology and procedures. Maintain project records such as incoming notice of intent-to-contract data, final contract award data and compliance document submittals. Ensure records are the database is current, accurate and maintained in a timely manner for use by other staff. Conduct audits and field investigation to verify that proper wage is being paid and respond to worker complaint for underpayment on major service contracts. Respond to information request from outside agencies; conduct enforcement of contractor compliance with restitution payments, liquidates damages, or recommending debarment when applicable. Prepares ad present oral and written reports and responds to requests for information. Attends contract compliance meetings and seminars as assigned. Promotes and maintains safe work practices in the workplace. Files project completion letters with the County of Monterey Clerk – Records Office upon City acceptance letters to contractor. Performs related duties as assigned.