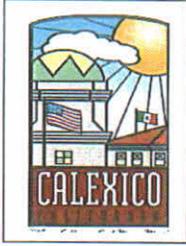


**AGENDA  
ITEM**

**5**



# AGENDA STAFF REPORT

**DATE:** May 20, 2020

**TO:** Mayor and City Council

**APPROVED BY:** David B. Dale, City Manager *DN*

**PREPARED BY:** Lilliana Falomir, Public Works Manager – Administrative *Hale*

**SUBJECT:** Award the Bid Proposal from A&R Construction in the amount of \$1,058,239.16 and Authorize City Manager to Sign Construction Agreement for Sewer Main Replacement Project on Designated Streets.

=====

## Recommendation:

It is recommended that the City Council of the City of Calexico approve the following:

1. Award the Bid Proposal from A&R Construction in the amount of \$1,058,239.16 and Authorize City Manager to Sign Construction Agreement for Sewer Main Replacement Project on Designated Streets.

## Background:

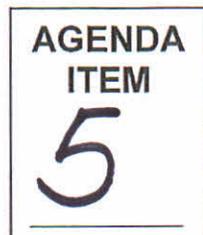
On March 2, 2020, the City of Calexico Public Works Department requested bids for Sewer Main Replacement Project. The project will consist of replacing the existing 8-inch and 4-inch gravity pipelines, installing and connecting each existing sewer service laterals along the new pipeline alignment. The locations of the sewer main replacement are:

- Paulin Avenue between 7th Street to 10th Street
- Dool Avenue between 5th Street and 7th Street
- Beach Avenue between 5<sup>th</sup> Street to 7th Street

## Discussion & Analysis:

On April 29, 2020, the Office of the City Clerk received two (2) bids:

	Company	Total
1	A&R Construction	\$1,058,239.16
2	Pyramid Construction & Aggregate, Inc.	\$3,045,875.60



After carefully reviewing all bid documentation from A&R Construction, Public Works Staff has found that they meet all required guidelines and are the lowest responsible bidder. For this reason, Public Works Staff is requesting City Council authorization to award the bid proposal and authorize the City Manager to sign an agreement with A&R Construction.

**Fiscal Impact:**

Capital Improvement Program – Budgeted Item for FY2019-2020	
Wastewater Enterprise Funds	\$1,058,239.16
Total	<u>\$1,058,239.16</u>

**Coordinated With:**

Public Works Department and Engineering Division.

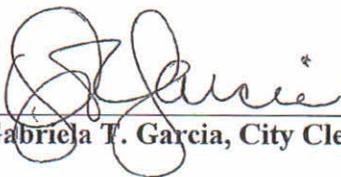
**Attachment(s):**

1. Bid Tabulation Sheets.
2. A&R Construction Bid Proposal.
3. Pyramid Construction & Aggregate, Inc. Proposal.
4. A&R Construction Agreement.
5. Sewer Main Replacement Project Plans.

**CITY OF CALEXICO  
OFFICE OF THE CITY CLERK  
BID TABULATION**

**Bid:** Sewer Main Replacement Project on Designated Streets  
**Dept.:** Public Works  
**Date:** April 29, 2020  
**Time:** 2:00p.m.  
**Location:** Council Chambers, City Hall, 608 Heber Avenue, Calexico, CA

COMPANY	TOTAL
A & R Construction	\$ 1,058,239.16
Pyramid Construction & Aggregate, Inc.	\$ 3,045,875.60

  
\_\_\_\_\_  
Gabriela T. Garcia, City Clerk

April 29, 2020

\_\_\_\_\_  
Date

**CITY OF CALEXICO**  
**SEWER MAIN REPLACEMENT PROJECT ON DESIGNATED STREETS**  
**UNOFFICIAL BID RESULTS**

**Bid Opening: April 29, 2020**

**Time: 2:00p.m.**

**Location: City Council Chambers, City Hall, 608 Heber Avenue, Calexico, CA**

Item No.	Approximate Quantity	Unit	Description	A&R Construction		Pyramid Construction & Aggregates, Inc.	
				Unit Price	Total	Unit Price	Total
1	1	LS	Mobilization	75,000.00	75,000.00	226,000.00	226,000.00
2	1	LS	Traffic Control	20,000.00	20,000.00	45,000.00	45,000.00
3	6,805	LF	Sawcut Existing A.C. Pavement	2.00	13,610.00	5.00	34,025.00
4	1,350	SY	Remove Existing A.C. Pavement	12.00	16,200.00	16.25	21,937.50
5	1,350	SY	12" Subgrade Preparation & Compaction	11.25	15,187.50	26.43	35,680.50
6	1350	SY	Aggregate Class II Base 9" Deep	19.65	26,527.50	28.00	37,800.00
7	220	TON	Asphalt Concrete Paving 3" Thick	364.00	80,080.00	281.52	61,934.40
8	3,180	LF	Remove Existing 8" Dia. PVC Sewer Pipe	12.00	38,160.00	15.07	47,922.60
9	3,048	LF	Remove Existing Sewer Lateral Pipe	8.05	24,536.40	7.70	23,469.60
10	18	EA	Remove Existing Serwer Manhole	2,860.00	51,480.00	3,000.00	54,000.00
11	3,180	LF	Install 8" Dia. PVC SDR-35 Sewer Pipe	110.00	349,800.00	213.00	677,340.00
12	3,048	LF	Install 4" Dia. PVC SDR-35 Sewer Pipe	45.37	138,287.76	295.00	899,160.00
13	1	LS	Bypass Pumping of Sewer Main	43,500.00	43,500.00	185,000.00	185,000.00
14	18	EA	Install Sewer Manhole	7,465.00	134,370.00	14,512.00	261,216.00
15	90	EA	Connect Laterals to New Sewer Line	300.00	27,000.00	4,771.00	429,390.00
16	1	LS	Re-painting of Pedestrian Crosswalks	4,500.00	4,500.00	6,000.00	6,000.00
				<u>1,058,239.16</u>		<u>3,045,875.60</u>	

**PROPOSAL BID FORM**

TO THE PUBLIC WORKS DIRECTOR/CITY ENGINEER OF THE CITY OF CALEXICO:

The undersigned hereby declares that he has carefully examined the location of the proposed work that he has examined the plans and specifications and read the accompanying instructions to bidders and hereby proposes to furnish all material except owner furnished materials, and do all work required to complete the said work in accordance with said plans and specifications and special provisions for the unit prices set forth in the following schedule. The bidder shall furnish prices for all items shown in the proposal.

Name of firm:    A R CONSTRUCTION   

Item No.	Approximate Quantity	Unit	Items w/Unit Price (written in words)	Price	Total
1.	1	LS	Mobilization at: <u>Seventy Five</u> <u>THOUSAND</u> L.S.	75,000	75,000
2.	1	LS	Traffic Control at: <u>Twenty Thousand</u> L.S.	20,000	20,000
3.	6805	LF	Sawcut Existing A.C. Pavement: <u>Two dollars</u> L.F.	2.00	13,610
4.	1350	SY	Remove Existing A.C. Pavement: <u>Twelve dollars</u> S.F.	12.00	16,200
5.	1350	SY	12" Subgrade Preparation & Compaction: <u>eleven dollars &amp; 25 cents</u> S.F.	11.25	15,187. <sup>50</sup>
6.	1350	SY	Aggregate Class II Base 9" Deep: <u>Nine Teen dollars and</u> <u>Sixty Five Cents</u> S.F.	19.65	26,527. <sup>50</sup>
7.	220	TON	Asphalt Concrete Paving 3" Thick: <u>Three hundred Sixty</u> <u>four dollars</u> TON	364	80,080

8.	3180	LF	Remove Existing 8" Dia. PVC Sewer Pipe: <u>Twelve dollars</u> L.F.	12.00	38,160
9.	3048*	LF	Remove Existing Sewer Lateral Pipe: <u>eight dollars +</u> <u>five cents</u> L.F.	8.05	24,536 <sup>40</sup>
10.	18	EA	Remove Existing Sewer Manhole: <u>Two Thousand eight hundred</u> <u>Sixty dollars</u> EA.	2860	51,480
11.	3180	LF	Install 8" Dia. PVC SDR-35 Sewer Pipe: <u>one hundred Ten dollars</u> Per Detail 4 on Plans L.F.	110.00	349,800
12.	3048*	LF	Install 4" Dia. PVC SDR-35 Sewer Lateral: <u>forty five dollars</u> <u>and 37 cents</u> Per Detail 5 on Plans L.F.	45.37	138,287 <sup>76</sup>
13.	1	LS	Bypass Pumping of Sewer Main: <u>forty Three Thousand</u> <u>five hundred dollars</u> L.F.	43,500	43,500
14.	18	EA	Install Sewer Manhole: <u>Seven Thousand four</u> <u>hundred sixty five dollars</u> Per Detail 1 on Plans EA.	7465	134,370
15.	90*	EA	Connect Laterals to New Sewer Line: <u>Three hundred dollars</u> EA.	300	27,000
16.	1	LS	Re-painting of Pedestrian Crosswalks at: <u>four Thousand Five</u> <u>hundred</u> L.S.	4500	4500

\* NOTE: City Inspector to determine condition of existing sewer lateral piping and locate other unknown laterals in order to assess whether new lateral piping will be installed, or if existing laterals are suitable to remain. An estimated quantity for the highlighted items is provided in this table, but is dependent on the quantity, condition, and location of existing laterals.

Grand Total Bid: 1,058,239.16

Grand Total Written in Words: one Million fifty eight Thousand Two hundred thirty nine dollars + sixteen cents

1.00 - The undersigned hereby acknowledges the receipt of the following addendum:  
None ; No. 1 ; No. 2 ; No. 3 ; No. 4 ; No. 5

2.00 - The undersign hereby certifies that this proposal/bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation.

3.00 - The undersigned hereby accepts on the behalf of his firm all provisions and requirements of the contract documents, including but not limited to those related to time of completion and liquidated damages.

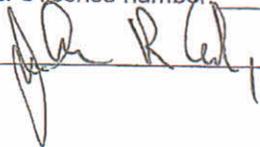
4.00 - The undersigned hereby certifies that they are authorized representative of the firm on whose behalf this proposal/bid is submitted and that they are acting at the direction and with the required approval of said firm, which is identified as follows:

Name of firm: A+R Construction

Address of firm: 1631 River Drive Brawley, Ca. 92227

Telephone number: 7603444653 Fax Number: 760 3444146

Contractor's license number: 787760 Type: "A"

Signed:  Date: 4-28-20

END OF PROPOSAL/BID FORM

**PROPOSAL BID FORM**

TO THE PUBLIC WORKS DIRECTOR/CITY ENGINEER OF THE CITY OF CALEXICO:

The undersigned hereby declares that he has carefully examined the location of the proposed work that he has examined the plans and specifications and read the accompanying instructions to bidders and hereby proposes to furnish all material except owner furnished materials, and do all work required to complete the said work in accordance with said plans and specifications and special provisions for the unit prices set forth in the following schedule. The bidder shall furnish prices for all items shown in the proposal.

Name of firm: Pyramid Construction and Aggregates, Inc.

Item No.	Approximate Quantity	Unit	Items w/Unit Price (written in words)	Price	Total
1.	1	LS	Mobilization at: <u>Two hundred and twenty-six</u> <u>thousand dollars</u> L.S.	226,000	226,000
2.	1	LS	Traffic Control at: <u>Forty-Five thousand dollars</u> L.S.	45,000	45,000
3.	6805	LF	Sawcut Existing A.C. Pavement: <u>Five Dollars</u> L.F.	5.00	34,025
4.	1350	SY	Remove Existing A.C. Pavement: <u>Sixteen dollars and twenty-</u> <u>five cents</u> S.F.	16.25	21,937.50
5.	1350	SY	12" Subgrade Preparation & Compaction: <u>Twenty-six dollars and forty-</u> <u>three cents</u> S.F.	26.43	35,680.50
6.	1350	SY	Aggregate Class II Base 9" Deep: <u>Twenty-eight dollars</u> S.F.	28.00	37,800
7.	220	TON	Asphalt Concrete Paving 3" Thick: <u>Two hundred and eighty-one</u> <u>dollars and fifty-two cents</u> TON	281.52	61,934.40

8.	3180	LF	Remove Existing 8" Dia. PVC Sewer Pipe: Fifteen dollars and seven cents L.F.	15.07	47,922.60
9.	3048*	LF	Remove Existing Sewer Lateral Pipe: Seven dollars and seventy cents L.F.	7.70	23,469.60
10.	18	EA	Remove Existing Sewer Manhole: Three thousand dollars EA.	3,000	54,000
11.	3180	LF	Install 8" Dia. PVC SDR-35 Sewer Pipe: Two hundred and thirteen dollars Per Detail 4 on Plans L.F.	213.00	677,340
12.	3048*	LF	Install 4" Dia. PVC SDR-35 Sewer Lateral: Two hundred and ninety-five dollars Per Detail 5 on Plans L.F.	295.00	899,160
13.	1	LS	Bypass Pumping of Sewer Main: One hundred eight-five thousand dollars L.F.	185,000	185,000
14.	18	EA	Install Sewer Manhole: Fourteen thousand, five hundred twelve dollars Per Detail 1 on Plans EA.	14,512	261,216
15.	90*	EA	Connect Laterals to New Sewer Line: Four thousand, seven hundred and seventy-one dollars EA.	4,771	429,390
16.	1	LS	Re-painting of Pedestrian Crosswalks at: Six thousand dollars L.S.	6,000	6,000

\* NOTE: City Inspector to determine condition of existing sewer lateral piping and locate other unknown laterals in order to assess whether new lateral piping will be installed, or if existing laterals are suitable to remain. An estimated quantity for the highlighted items is provided in this table, but is dependent on the quantity, condition, and location of existing laterals.

Grand Total Bid: 3,045,875.60

Grand Total Written in Words: Three million, forty-five thousand, eight hundred  
seventy-five dollars and sixty cents

1.00 - The undersigned hereby acknowledges the receipt of the following addendum:  
None ; No. 1 ; No. 2 ; No. 3 ; No. 4 ; No. 5

2.00 - The undersign hereby certifies that this proposal/bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation.

3.00 - The undersigned hereby accepts on the behalf of his firm all provisions and requirements of the contract documents, including but not limited to those related to time of completion and liquidated damages.

4.00 - The undersigned hereby certifies that they are authorized representative of the firm on whose behalf this proposal/bid is submitted and that they are acting at the direction and with the required approval of said firm, which is identified as follows:

Name of firm: Pyramid Construction and Aggregates, Inc.

Address of firm: 839 Dogwood Road, Heber CA 92249

Telephone number: 760-337-5839 Fax Number: 760-337-5993

Contractor's license number: 866533 Type: A

Signed:  Date: 4/29/20

END OF PROPOSAL/BID FORM

**CONSTRUCTION AGREEMENT  
CITY OF CALEXICO, CALIFORNIA**

THIS AGREEMENT is made this 20<sup>th</sup> day of May, 2020, by and between the City of Calexico, a Municipal Corporation of the State of California ("City") and A&R Construction ("Contractor"). The City and the CONTRACTOR for consideration stated herein agree as follows:

1. Description of Project

CONTRACTOR shall provide for the construction of Sewer Main Replacement on Designated Street in accordance with the Invitation for Bids.

2. Description of Work

2.1 CONTRACTOR shall furnish all of the labor, tools, equipment, and services required to perform all of the work in connection with the construction of Sewer Main Replacement on Designated Streets Project in accordance with the invitation for Bids, incorporated by reference as though fully set herein. Said construction shall be in accordance with the 2010 California Department of Transportation Standard Plans, Labor Surcharge and Equipment Rental Rates in effect on the date the work is accomplished, and the General Prevailing Wage rates dated 2020. Said invitation for bids, Standard Plans, Standard Specifications, Labor Surcharge and Equipment Rental Rates, and General Prevailing Wage Rates are as fully a part of the Agreement as if hereto attached or herein repeated.

2.2 The work to be performed under this Agreement shall conform to the plans entitled "City of Calexico, Sewer Main Replacement on Designated Streets Plan and Profile", incorporated herein as fully a part of this Agreement as if hereto attached or herein repeated.

3. Time for Completion

The work shall be commenced on the date stated in Notice to Proceed, and shall be completed within the allotted working days after the date stated in such Notice.

4. Compensation

4.1 City will pay the CONTRACTOR for the performance of this Agreement according to the terms and conditions contained in the Project's Invitation for Bids and Proposal or bid submittal by CONTRACTOR. CONTRACTOR will take full payment in accordance with the following item prices incorporated as part of the proposal or bid submitted by CONTRACTOR.

4.2 CONTRACTOR agrees to receive and accept said compensation as full payment for furnishing all materials and for doing all the work contemplated and embraced in this agreement; also for all loss or damage, arising out of the nature of the work aforesaid, or from any unforeseen difficulties or obstructions which may arise or be encountered in the prosecution of the work

until its acceptance by CITY and for all risks of every description connected with the work; also for all expenses incurred by or in consequence of the suspension or discontinuance of work and for well and faithfully completing the work in the manner and according to the plans and specification, and the requirements of the CITY Engineer. This provision in no way limits the CONTRACTOR's duties under other provisions herein.

## 5. Industry Standards

The CONTRACTOR agrees that its performance, and that of its employees or subcontractors, under this Agreement shall be performed in accordance with the standards customarily adhered to by an experienced and competent contractor using the degree of care and skill ordinarily exercised by reputable professionals practicing in the same field in the State of California. Where approval by the CITY, the CITY Manager, or other representatives of the CITY is required, it is understood to be general approval only and does not relieve the CONTRACTOR of responsibility for complying with all applicable laws, codes and quality construction and business practices.

## 6. Insurance

The CONTRACTOR shall not begin performing under this Agreement until it has: (a) obtained insurance certificates reflecting evidence of all insurance required herein; however, the CITY reserves the right to request, and the CONTRACTOR shall submit, copies of any policy upon reasonable request by the CITY; (b) obtained CITY approval of each company or companies as required herein; and (c) confirmed that all policies contain the specific provisions required herein. Further the CONTRACTOR shall not modify any policy or endorsement thereto which increases the CITY'S exposure to loss for the duration of this Agreement.

### 6.1 Types of Insurance.

At all times during the term of this Agreement, CONTRACTOR shall maintain insurance coverage as follows:

#### 6.1.1 Commercial General Liability

For all of the CONTRACTOR's operations, including contractual, broad form property damage, completed operations, and independent CONTRACTOR's liability, the CONTRACTOR shall keep in full force and effect, during any and all work on this Project, all applicable insurance to cover personal injury, bodily injury and property damage, providing coverage to a combined single limit of \$1,000,000.00 per occurrence, subject to an annual aggregate of \$2,000,000.00 for general liability, completed operations and personal injury other than bodily injury. Agreemental liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. Agreemental liability limitation endorsement is not acceptable.

#### 6.1.2 Commercial Automobile Liability

For all the CONTRACTOR's automobiles including owned, hired and non-owned automobiles, the CONTRACTOR shall keep in full force and effect, automobile insurance for bodily injury and property damage providing coverage to a combined single limit of \$1,000,000.00 per occurrence. Insurance certificate shall reflect coverage for any automobile [any auto]. The CITY shall be named as an additional insured, but only for liability arising out of the use of CONTRACTOR's automobiles and only arising out of the performance of this Agreement.

#### 6.1.3 Worker's Compensation

For all of the CONTRACTOR's employees who are subject to this Agreement and to the extent required by the State of California, the CONTRACTOR shall keep in full force and effect, a workers compensation policy. That policy shall provide a minimum of \$1,000,000.00 of employees liability coverage and the CONTRACTOR shall provide and endorsement that the insurer waives the right of subrogation against the CITY and its respective elected officials, officers, employees, agents and representatives.

#### 6.2 Rating Requirements

All bonds used to guarantee work and performance under this Agreement and all insurance required by express provision of this Agreement shall be carried only by responsible insurance companies that have been at least and "A" or "A-" and "V" rating by AM BEST, that are licensed and approved by the State to do business in the State of California, and that have been approved by the CITY.

#### 6.3 Deductibles

All deductibles on any policy shall be the responsibility of the CONTRACTOR.

#### 6.4 Specific Provisions Required

Each policy required under Section 6 herein, shall expressly provide, and an endorsement shall be submitted to the City, that:

6.4.1 Except as to Workers Compensation, the City of Calexico and its respective elected officials, officers, employees, agents, and representatives shall be named as additional insureds. The CITY's Additional Insured status must be reflected on additional insured endorsement which shall be submitted to the CITY.

6.4.2 The policies are primary and any insurance that may be carried by the CITY is non-contributing, as reflected in an endorsement which shall be submitted to the CITY.

6.4.3 The policies cannot be canceled, non renewed or materially changed except after thirty calendar days prior written notice by the CONTRACTOR to the CITY by certified mail, as reflected

in an endorsement which shall be submitted to the CITY except for non-payment of premium, in which case ten (10) days notice will be provided.

6.4.4 Before performing under this Agreement, the CONTRACTOR shall provide the CITY with all Certificates of Insurance accompanied with all endorsements.

6.4.5 The CONTRACTOR may obtain additional insurance not required by this Agreement.

## 7. Agreementor Compliance with Labor Code

CONTRACTOR certifies that he is aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Worker's Compensation or to undertake self insurance in accordance with the provisions of that Code, and will comply with such provisions before commencing the performance of the work of this Agreement.

## 8. Control of Agreement

The improvement contemplated in the performance of this contract is a project over which the City of Calexico shall exercise general supervision. The CITY therefore shall have the right to assume full and direct control over this contract whenever the CITY, at its sole discretion, shall determine that its responsibility to the State of California so requires.

## 9. Conflicting Terms

If an apparent conflict or inconsistency exists between the main body of this Agreement and the bid, proposal or other incorporated document, the main body of this Agreement shall control. If a conflict exists between applicable federal, state, or local law, rule, regulation, order, or code and this Agreement, the law, rule, regulation, order, or code shall control. Varying degrees of stringency among the main body of this Agreement, the Exhibits, and laws, rules, regulations, orders, or codes are not deemed conflicts, and the most stringent requirements shall control. Each party shall notify the other immediately upon the identification of any apparent conflict or inconsistency concerning this Agreement.

## 10. Indemnification and Hold Harmless Agreement

10.1 With respect to any liability, including but not limited to claims asserted or costs, losses, attorney fees (for attorney of CITY's choosing), or payments for injury to any person or property caused or claimed to be caused by the acts or omissions of the CONTRACTOR, or the CONTRACTORS's employees, agents, and officers, arising out of any services performed involving this project, the CONTRACTOR agrees to defend, indemnify, protect, and hold harmless the CITY, its agents, officers, or employees from and against all liability . Also covered is liability arising from, connected with, caused by, or claimed to be caused by the active or passive negligent acts or omissions of the CITY, its agents, officers, or employees which may be in combination with the

active or passive negligent acts or omissions of the CONTRACTOR, its employees, agents or officers, or any third party. The CONTRACTOR's duty to defend, indemnify, protect and hold harmless shall not include any claims or liabilities arising from the sole negligence or sole willful misconduct of the CITY, its agent, officers or employees. This section in no way alters, affects or modifies any of CONTRACTOR's other obligations and duties herein.

10.2 The CONTRACTOR agrees to pay any and all costs the CITY incurs enforcing the indemnity and defense provisions herein.

11. Notices

In all cases where written notice is required under this Agreement, service shall be deemed sufficient if the notice is deposited in the United States mail, postage paid. Proper notice shall be effective on the date it is mailed, unless provided otherwise in this Agreement. For the purpose of this Agreement, unless otherwise agreed in writing, notice to the parties herein shall be addressed as follows:

CITY

CONTRACTOR:

City of Calexico  
Public Works Department  
608 Heber Avenue  
Calexico, CA 92231

A&R Construction  
1631 River Drive  
Brawley, CA 92227

12. Non-Assignment

The CONTRACTOR shall not assign the obligations under this Agreement, whether by express assignment or by sale of the company, nor any monies due or to become due, without the CITY's prior written approval. Any assignment in violation of this paragraph shall constitute a Default and is grounds for immediate termination of this Agreement, at the sole discretion of the CITY. In no event shall any putative assignment create a contractual relationship between the CITY and any putative assignee.

13. Independent Agreementors

The CONTRACTOR and any SUBCONTRACTORS employed by the CONTRACTOR shall be independent contractors and not agents of the CITY.

14. Compliance with Controlling Law

The CONTRACTOR shall comply with all laws, ordinances, regulations, and policies of the federal, state and local governments applicable to this Agreement, including California Labor Code section 1720 relating to the payment of prevailing wages, including inspection and land surveying

work. In addition, the CONTRACTOR shall comply immediately with all directives issues by the CITY or its authorized representatives under authority of any laws, statutes, ordinances, rules or regulations. The laws of the State of California shall govern and control the terms and conditions of this Agreement.

Pursuant to the Labor Code of the State of California, or local laws applicable thereto, the CITY has ascertained that the CONTRACTOR shall be responsible for paying prevailing wages as established by the State of California, Director of Industrial Relations. Under Section 1776 of the State Labor Code, the CONTRACTOR, and all subcontractors, are required to keep accurate payroll records. This Section specifies the content thereof, inspection and duplication procedures, and certain notices required of the CONTRACTOR pertaining to their location.

Whenever the CONTRACTOR or any representative, agent or employee Of CONTRACTOR performing a public works project is found by the Department of Industrial Relations ("DIR") or the CITY to be in violation of the prevailing wage requirements imposed by law, the CONTRACTOR shall indemnify and hold CITY harmless from any and all liability arising from such violation, including any and all liability imposed on the City. The CONTRACTOR's duty to indemnify the CITY pursuant to this section shall include any and all costs and expenses incurred by the CITY therefrom, including but not limited to any penalties imposed on the CITY by DIR or any other state agency and reasonable attorney's fees.

Nothing in this section shall be construed to limit, alter or amend the CONTRACTOR's duty to indemnify under any other provisions of this Agreement.

#### 15. Jurisdiction and Venue

The venue for any suit or proceeding concerning this Agreement, the interpretation or application of any of its terms, or any related disputes shall be in the County of the Imperial, State of California.

#### 16. Integration

This Agreement and the exhibits and references incorporated into this Agreement fully express all understandings of the Parties concerning the matters covered in this Agreement. No change, alteration, or modification of the terms or conditions of this Agreement, and no verbal understanding of the Parties, their officers, agents, or employees shall be valid unless made in the form of a written change agreed to in writing by both parties or an amendment to this Agreement agreed to both Parties. All prior negotiations and agreements are merged into this Agreement.

#### 17. Counterparts

This Agreement may be executed in counterparts, which when taken together shall constitute a single signed original as though all parties had executed the same page.

18. No Waiver

No failure of either the CITY or the CONTRACTOR to insist upon the strict performance by the other of any covenant, term or condition of this Agreement, nor any failure to exercise any right or remedy consequent upon a breach of any covenant, term, or condition of this Agreement, shall constitute a waiver of any such breach or such covenant, term or condition. No waiver of any breach shall affect or alter this Agreement, and each and every covenant, condition, and term hereof shall continue in full force and effect to any existing or subsequent breach.

19. Severability

The unenforceability, invalidity, or illegality of any provision of this Agreement shall not render any other provision of this Agreement unenforceable, invalid, or illegal.

IN WITNESS WHEREOF, the parties hereto through their agent duly authorized, have executed this Agreement as of the day and year first above written.

ATTEST:

\_\_\_\_\_  
GABRIELA GARCIA  
City Clerk of the City of Calxico

\_\_\_\_\_  
DAVID DALE  
City Manager of the City of Calxico

CONTRACTOR

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name and Title

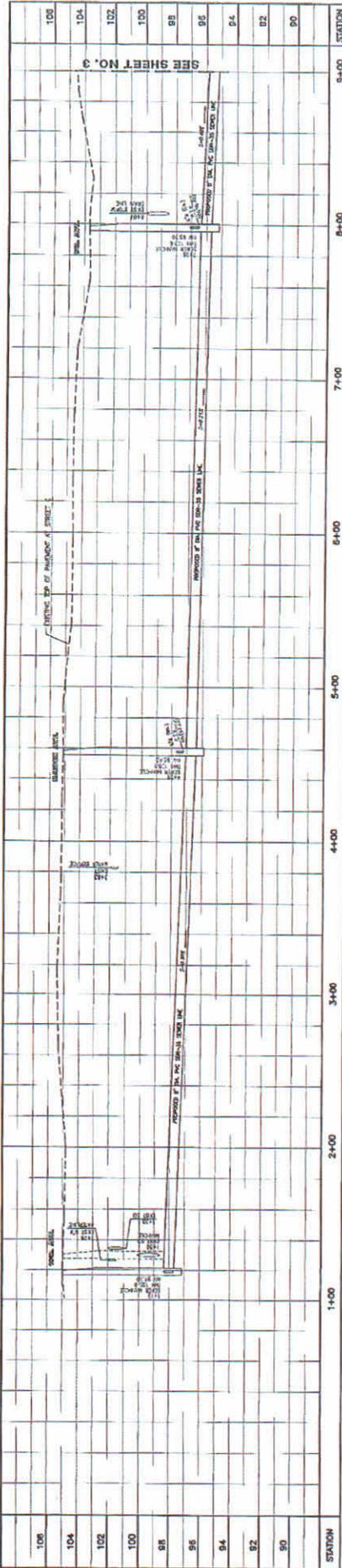
Licensed in accordance with an act  
Providing for the registration of contractors,  
License No. \_\_\_\_\_

APPROVED AS TO FORM AND EXECUTION

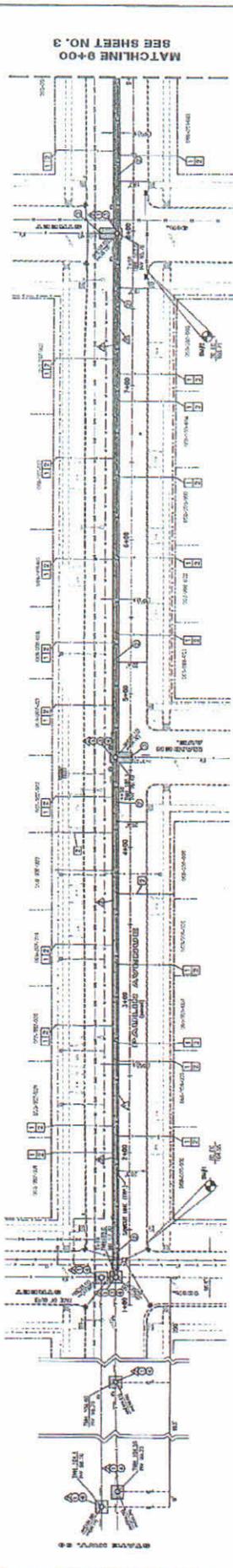
\_\_\_\_\_  
CARLOS CAMPOS  
City Attorney

\_\_\_\_\_  
Date





**PROFILE, PAULIN AVENUE**  
 HORIZONTAL SCALE: 1" = 30'  
 VERTICAL SCALE: 1" = 3'



**PLAN, PAULIN AVENUE**  
 HORIZONTAL SCALE: 1" = 30'

**REVISIONS:**

NO.	REVISION	DATE BY
1	FOR FIRST TIME DURING/REWORKING ON 08-17-19	BD-10-10 E.E.
2	FOR REVISIONS DURING PERMITS/CONTRACTOR'S 7-19-19	DP-23-17 E.E.

**NO. 1** FOR FIRST TIME DURING/REWORKING ON 08-17-19  
**NO. 2** FOR REVISIONS DURING PERMITS/CONTRACTOR'S 7-19-19

**REVISIONS:**

- 1. FOR FIRST TIME DURING/REWORKING ON 08-17-19
- 2. FOR REVISIONS DURING PERMITS/CONTRACTOR'S 7-19-19

**DATE:** 09-23-19  
**BY:** E.E.  
**SCALE:** 1" = 30'

**GENERAL NOTES:**

- CITY INSPECTOR TO DETERMINE EXISTING UNDER LATERAL LOCATIONS THAT ARE UNKNOWN IF ANY, UNKNOWN AS THE OF EXISTING HUE WITH PLANTED IN THE MIDDLE OF EACH PROPERTY LOT.
- CITY INSPECTOR TO EXAMINE LATERAL CONDITIONS TO DETERMINE WHETHER EXISTING LATERAL PIPES CAN BE REUSED, IMPROVED AND REPAIRED WITH NEW PIPING, OR IF EXISTING LATERAL IS UNREPAIRABLE TO REMOVE.

**GENERAL NOTES:**

- FOR DRIVING PURPOSES, THE EXISTING UNDER LATERAL AND NEW UNDER LATERAL PIPING SHALL BE REUSED, IMPROVED AND REPAIRED TO REMAIN THE NEW UNDER LATERAL SHALL BE LAD DIRECTLY IN PLACE OF THE EXISTING PIPING.

**CONSTRUCTION KEYNOTES:**

- CONSTRUCT PVC UNDER MAINLINE PER DETAIL 1 ON SHEET 5
- INSTALL 6" PVC 200-35 UNDER PIPE PER DETAIL 4 ON SHEET 5
- CONNECT NEW PVC 200-35 UNDER PIPE WITH EXISTING UNDER PIPE ON NEW MAINLINE, CONNECTION TO VERIFY EXISTING PIPE.
- CONSTRUCT AND CONNECT AS NECESSARY.
- EXISTING PVC 200-35 UNDER PIPE TO NEW UNDER MAINLINE.

**DEMOLITION KEYNOTES:**

- REMOVE, REMOVE AND REPOSE OF EXISTING AS PARTWOP
- REMOVE AND REPOSE EXISTING MAINLINE
- REMOVE AND REPOSE OF EXISTING SIDEWALK

**CONSTRUCTION KEYNOTES:**

- CONSTRUCT PVC UNDER MAINLINE PER DETAIL 1 ON SHEET 5
- INSTALL 6" PVC 200-35 UNDER PIPE PER DETAIL 4 ON SHEET 5
- CONNECT NEW PVC 200-35 UNDER PIPE WITH EXISTING UNDER PIPE ON NEW MAINLINE, CONNECTION TO VERIFY EXISTING PIPE.
- CONSTRUCT AND CONNECT AS NECESSARY.
- EXISTING PVC 200-35 UNDER PIPE TO NEW UNDER MAINLINE.

**OFFICIAL BENCHMARK: 2 12H**

REVISIONS: 12H  
 IN CALIFORNIA, THE ENGINEER OR ARCHITECT MUST BE A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT IN THE STATE OF CALIFORNIA. THE ENGINEER OR ARCHITECT MUST BE A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT IN THE STATE OF CALIFORNIA. THE ENGINEER OR ARCHITECT MUST BE A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT IN THE STATE OF CALIFORNIA.

**REVISIONS:**

- 1. FOR FIRST TIME DURING/REWORKING ON 08-17-19
- 2. FOR REVISIONS DURING PERMITS/CONTRACTOR'S 7-19-19

**DATE:** 09-23-19  
**BY:** E.E.  
**SCALE:** 1" = 30'

**PAULIN AVENUE**  
**PLAN AND PROFILE**  
 FROM STATION 1+00 TO STATION 9+00  
 SHEET 6 OF 6

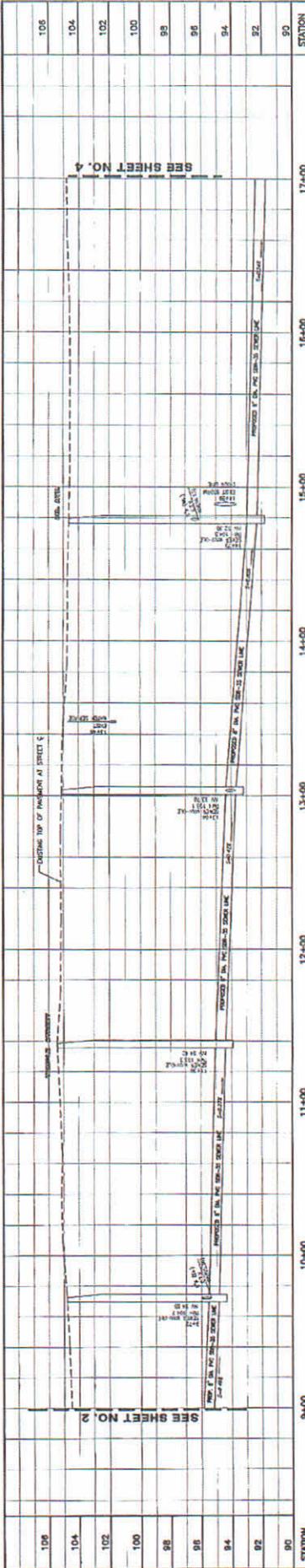
**ENGINEERING & SURVEYING, INC.**  
 10000 INTERNATIONAL CA BLVD  
 FORT MYERS, FL 33907  
 PHONE 339-3931

**APPROVED BY CITY ENGINEER**  
 CITY OF CALLEDON  
 DATE: 9/23/19  
 S.C.E. NO. 10022

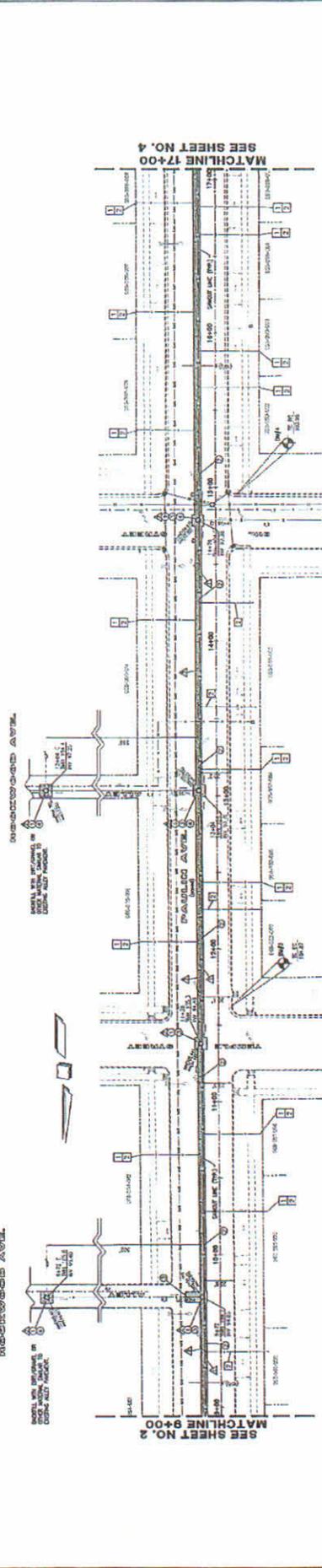
**ENGINEER OF RECORD**  
 PLANS PREPARED UNDER THE SUPERVISION OF  
 DATE: 09/23/2019  
 S.C.E. NO. 10022

**GRAPHIC SCALE**  
 0 30 60  
 FEET

**CLIENT:** CITY OF CALLEDON  
**JOB NO.:** 19-105



**PROFILE: PAULIN AVENUE**  
 HORIZONTAL SCALE: 1" = 30'  
 VERTICAL SCALE: 1" = 3'



**PLAN: PAULIN AVENUE**  
 HORIZONTAL SCALE: 1" = 30'

**DEMOLITION KEYNOTES:**

- ▲ REMOVE AND REPAIR OR REPLACE EXISTING CURB AND GUTTER
- ▲ REMOVE AND REPAIR OR REPLACE EXISTING SIDEWALK
- ▲ REMOVE AND REPAIR OR REPLACE EXISTING DRIVE

**CONSTRUCTION KEYNOTES:**

- ① CONTRACT FOR NEW MANHOLE PER DETAIL 1 ON SHEET 5
- ② INSTALL 18" PVC 1200-33 SINKER PIPE FOR DETAIL 4 ON SHEET 5
- ③ CORRECT AND PATCH 18" PVC 1200-33 PIPE WITH EXISTING SINKER PIPE ON NEW MANHOLE. CONTRACTOR TO VERIFY EXISTING PIPE SIZE AND GRADE.
- ④ CORRECT AND PATCH 18" PVC 1200-33 SINKER PIPE TO NEW SINKER MANHOLE.

**SEWER LATERAL KEYNOTES:**

- ① CITY INSPECTOR TO DETERMINE SEWER LATERAL LOADINGS THAT ARE UNKNOWN OR NOT KNOWN AT THE OF EXISTING PIPE. BEH PARTS IN THE MIDDLE OF EACH PROPERTY LOT.
- ② CITY INSPECTOR TO DETERMINE LATERAL CONDITION TO DETERMINE WHETHER EXISTING PIPE WILL BE REPAIRED, REPLACED, OR REMOVED WITH NEW PIPE. IF IT EXISTING LATERAL IS UNSALE TO REMAIN.

**GENERAL NOTES:**

- VERIFY ALL EXISTING UTILITIES, THE EXISTING STREET LINE AND NEW SINKER PIPE HAVE BEEN SHOWN WITH A SURVEY OFFSET. HOWEVER, BEARING PROJECT MARK THE NEW SINKER PIPE WILL BE LAD DIRECTLY IN PLACE OF THE EXISTING PIPE.

**OFFICIAL BENCHMARKS:**

REVISION MARK IN METRIC COUNTY COURTHOUSE, 1001 N. 10TH STREET, DENVER, CO 80202. BENCH MARK NO. 1001. ELEVATION = 5280.00. DATE = 01/17/2020.

**DATE OF SURVEY:** 05/17/2020  
**BY:** [Signature]  
**DATE:** 05/17/2020  
**R.C.L. NO.:** 65298

**REVISION**

NO.	REVISION	DATE	BY
1	FOR FIRST PLANK ORDER/RECOMMENDATION ON 06-17-19	07-16-19	E.C.
2	FOR MAINTENANCE SYSTEM SUPERVISOR COMMENTS 8-29-19	09-23-19	E.C.

**ENGINEER OF RECORD**  
 PLANS PREPARED UNDER THE SUPERVISION OF  
 BY: [Signature]  
 R.C.L. NO.: 65298

**APPROVED BY CITY ENGINEER**  
 CITY OF CALLEDON  
 BY: [Signature]  
 DATE: 2/16/20  
 R.C.L. NO.: 43398

**GRAPHIC SCALE**  
 FEET  
 0 15 30

**CAUTION**  
 BEFORE ANY CONSTRUCTION BEGINS, THE CONTRACTOR OF THIS PROJECT SHALL VERIFY THE FIELD, THE DEPTH AND LOCATION OF ALL UTILITIES IN THE PROJECT AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY ENGINEER OF RECORD AND THE CITY ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY ENGINEER OF RECORD.

**PAULIN AVENUE PLAN AND PROFILE**  
 SHEET NO. 6 OF 6  
 CITY OF CALLEDON, DENVER, CO  
 DATE: 05-17-2020  
 DRAWN BY: E.C.  
 CHECKED BY: E.C.  
 CITY OF CALLEDON

**ENGINEERING & SURVEYING, INC.**  
 Phone: 303-555-5555 | 341 WEST CHERRY ST. STE 500  
 DENVER, CO 80202  
 Fax: 303-555-3701  
 1800 CALLETON BLVD. SUITE 100  
 CALLEDON, CA 95008





GENERAL SPECIFICATIONS:

- 1. ALL WORK SHALL BE SUBJECT TO THE SUPERVISION OF THE CITY ENGINEER...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

SEWER IMPROVEMENT PLAN NOTES:

- 1. GENERAL NOTES SHALL BE SUBJECT TO THE SUPERVISION OF THE CITY ENGINEER...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

UNDERGROUND UTILITY CONFLICT NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

PAVEMENT NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
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- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

DEMOLITION NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

EROSION AND SEDIMENT CONTROL PLAN

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

UTILITY NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

REVISION

Table with columns: NO., REVISION, DATE, BY. Contains revision history for the project.

APPROVED BY CITY ENGINEER, CITY OF CALLEDON. Includes signature lines for the City Engineer and the contractor, along with project specifications and contact information for B.J. Engineering & Surveying, Inc.



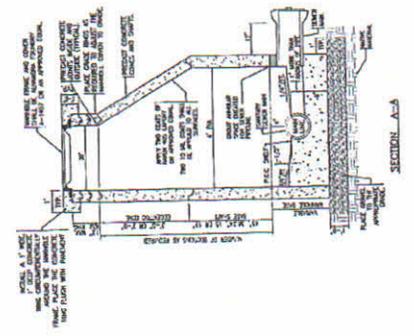
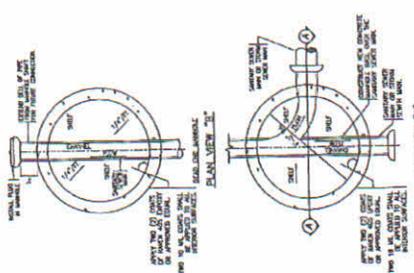
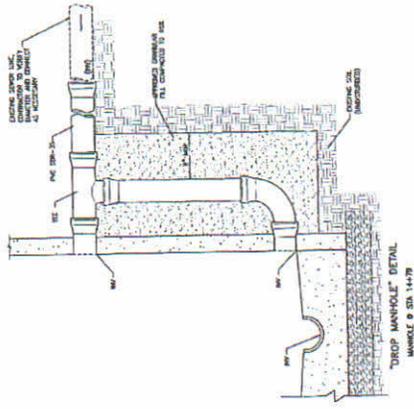








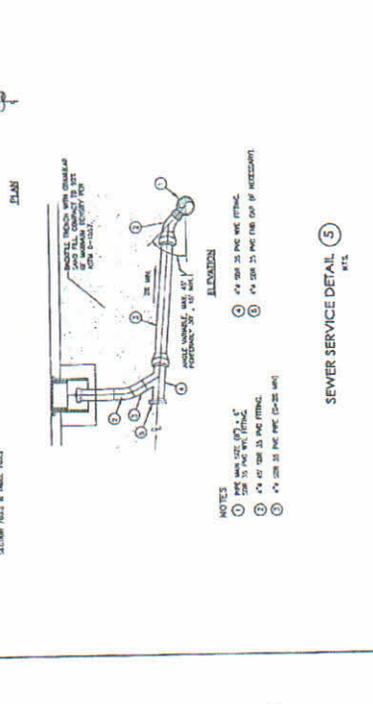
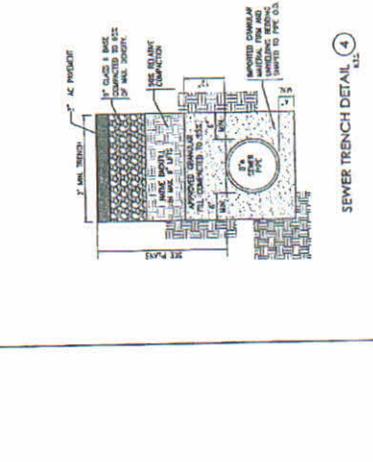
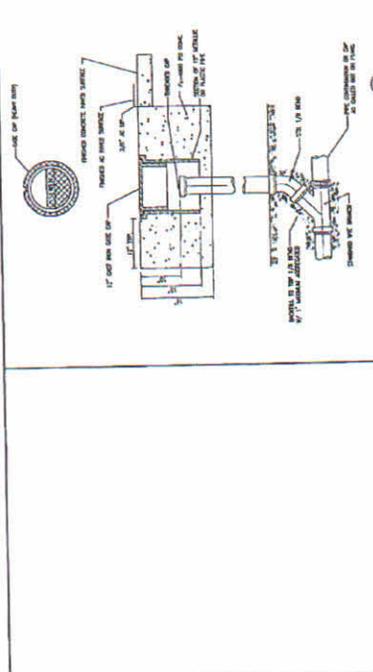
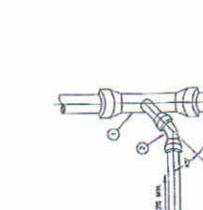
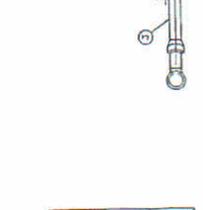




- NOTES:**
1. EXCEPT AS NOTED HEREIN, THE PREVIOUS EDITIONS OF THIS SPECIFICATION SHALL BE OBSERVED AND THE PUBLIC WORKS CONSTRUCTION.
  2. DUE TO THE VARIATION OF THE PERMISSIBLE JOINTS, MANHOLES SHALL BE CONSTRUCTED TO MAINTAIN THE SAFETY OF MANHOLES.
  3. MANHOLES SHALL BE CONSTRUCTED TO MAINTAIN THE SAFETY OF MANHOLES. THE JOINTS SHALL BE CONSTRUCTED TO MAINTAIN THE SAFETY OF MANHOLES. THE JOINTS SHALL BE CONSTRUCTED TO MAINTAIN THE SAFETY OF MANHOLES.
  4. ON THE PLANS, THE TRENCH AND COVER SHALL BE PLACED DIRECTLY OVER THE CENTER OF THE STRUCTURE EXCEPT AS OTHERWISE NOTED.
  5. MANHOLE JOINTS, COVERS AND GRATE SHALL BE SET PLUMB.
  6. PLACE COVER GRATE IN THE CENTER BETWEEN APPROVED JOINTS. MANHOLES SHALL BE CONSTRUCTED TO MAINTAIN THE SAFETY OF MANHOLES.
  7. 'DROP MANHOLE' DETAIL ABOVE.

**TABLE 701.2**  
MINIMUM JOINT STRENGTH AND JOINT PROTECTION

MANHOLE SIZE	JOINT STRENGTH (lb)	JOINT PROTECTION (lb)
18" DIA.	2500	1500
24" DIA.	3500	2100
30" DIA.	4500	2700
36" DIA.	5500	3300
42" DIA.	6500	3900
48" DIA.	7500	4500
54" DIA.	8500	5100
60" DIA.	9500	5700
66" DIA.	10500	6300
72" DIA.	11500	6900
78" DIA.	12500	7500
84" DIA.	13500	8100
90" DIA.	14500	8700
96" DIA.	15500	9300
102" DIA.	16500	9900
108" DIA.	17500	10500
114" DIA.	18500	11100
120" DIA.	19500	11700
126" DIA.	20500	12300
132" DIA.	21500	12900
138" DIA.	22500	13500
144" DIA.	23500	14100
150" DIA.	24500	14700
156" DIA.	25500	15300
162" DIA.	26500	15900
168" DIA.	27500	16500
174" DIA.	28500	17100
180" DIA.	29500	17700
186" DIA.	30500	18300
192" DIA.	31500	18900
198" DIA.	32500	19500
204" DIA.	33500	20100
210" DIA.	34500	20700
216" DIA.	35500	21300
222" DIA.	36500	21900
228" DIA.	37500	22500
234" DIA.	38500	23100
240" DIA.	39500	23700
246" DIA.	40500	24300
252" DIA.	41500	24900
258" DIA.	42500	25500
264" DIA.	43500	26100
270" DIA.	44500	26700
276" DIA.	45500	27300
282" DIA.	46500	27900
288" DIA.	47500	28500
294" DIA.	48500	29100
300" DIA.	49500	29700
306" DIA.	50500	30300
312" DIA.	51500	30900
318" DIA.	52500	31500
324" DIA.	53500	32100
330" DIA.	54500	32700
336" DIA.	55500	33300
342" DIA.	56500	33900
348" DIA.	57500	34500
354" DIA.	58500	35100
360" DIA.	59500	35700
366" DIA.	60500	36300
372" DIA.	61500	36900
378" DIA.	62500	37500
384" DIA.	63500	38100
390" DIA.	64500	38700
396" DIA.	65500	39300
402" DIA.	66500	39900
408" DIA.	67500	40500
414" DIA.	68500	41100
420" DIA.	69500	41700
426" DIA.	70500	42300
432" DIA.	71500	42900
438" DIA.	72500	43500
444" DIA.	73500	44100
450" DIA.	74500	44700
456" DIA.	75500	45300
462" DIA.	76500	45900
468" DIA.	77500	46500
474" DIA.	78500	47100
480" DIA.	79500	47700
486" DIA.	80500	48300
492" DIA.	81500	48900
498" DIA.	82500	49500
504" DIA.	83500	50100
510" DIA.	84500	50700
516" DIA.	85500	51300
522" DIA.	86500	51900
528" DIA.	87500	52500
534" DIA.	88500	53100
540" DIA.	89500	53700
546" DIA.	90500	54300
552" DIA.	91500	54900
558" DIA.	92500	55500
564" DIA.	93500	56100
570" DIA.	94500	56700
576" DIA.	95500	57300
582" DIA.	96500	57900
588" DIA.	97500	58500
594" DIA.	98500	59100
600" DIA.	99500	59700
606" DIA.	100500	60300
612" DIA.	101500	60900
618" DIA.	102500	61500
624" DIA.	103500	62100
630" DIA.	104500	62700
636" DIA.	105500	63300
642" DIA.	106500	63900
648" DIA.	107500	64500
654" DIA.	108500	65100
660" DIA.	109500	65700
666" DIA.	110500	66300
672" DIA.	111500	66900
678" DIA.	112500	67500
684" DIA.	113500	68100
690" DIA.	114500	68700
696" DIA.	115500	69300
702" DIA.	116500	69900
708" DIA.	117500	70500
714" DIA.	118500	71100
720" DIA.	119500	71700
726" DIA.	120500	72300
732" DIA.	121500	72900
738" DIA.	122500	73500
744" DIA.	123500	74100
750" DIA.	124500	74700
756" DIA.	125500	75300
762" DIA.	126500	75900
768" DIA.	127500	76500
774" DIA.	128500	77100
780" DIA.	129500	77700
786" DIA.	130500	78300
792" DIA.	131500	78900
798" DIA.	132500	79500
804" DIA.	133500	80100
810" DIA.	134500	80700
816" DIA.	135500	81300
822" DIA.	136500	81900
828" DIA.	137500	82500
834" DIA.	138500	83100
840" DIA.	139500	83700
846" DIA.	140500	84300
852" DIA.	141500	84900
858" DIA.	142500	85500
864" DIA.	143500	86100
870" DIA.	144500	86700
876" DIA.	145500	87300
882" DIA.	146500	87900
888" DIA.	147500	88500
894" DIA.	148500	89100
900" DIA.	149500	89700
906" DIA.	150500	90300
912" DIA.	151500	90900
918" DIA.	152500	91500
924" DIA.	153500	92100
930" DIA.	154500	92700
936" DIA.	155500	93300
942" DIA.	156500	93900
948" DIA.	157500	94500
954" DIA.	158500	95100
960" DIA.	159500	95700
966" DIA.	160500	96300
972" DIA.	161500	96900
978" DIA.	162500	97500
984" DIA.	163500	98100
990" DIA.	164500	98700
996" DIA.	165500	99300
1002" DIA.	166500	99900
1008" DIA.	167500	100500
1014" DIA.	168500	101100
1020" DIA.	169500	101700
1026" DIA.	170500	102300
1032" DIA.	171500	102900
1038" DIA.	172500	103500
1044" DIA.	173500	104100
1050" DIA.	174500	104700
1056" DIA.	175500	105300
1062" DIA.	176500	105900
1068" DIA.	177500	106500
1074" DIA.	178500	107100
1080" DIA.	179500	107700
1086" DIA.	180500	108300
1092" DIA.	181500	108900
1098" DIA.	182500	109500
1104" DIA.	183500	110100
1110" DIA.	184500	110700
1116" DIA.	185500	111300
1122" DIA.	186500	111900
1128" DIA.	187500	112500
1134" DIA.	188500	113100
1140" DIA.	189500	113700
1146" DIA.	190500	114300
1152" DIA.	191500	114900
1158" DIA.	192500	115500
1164" DIA.	193500	116100
1170" DIA.	194500	116700
1176" DIA.	195500	117300
1182" DIA.	196500	117900
1188" DIA.	197500	118500
1194" DIA.	198500	119100
1200" DIA.	199500	119700



**APPROVED BY CITY ENGINEER**  
CITY OF CALLEDON

**ENGINEER OF RECORD**  
F. J. [Signature] DATE: 02/17/2020  
P. J. [Signature] DATE: 02/17/2020  
R. E. L. [Signature] DATE: 02/17/2020

**REVISION**

NO.	DATE	BY
1	02-17-19	[Signature]
2	02-23-19	[Signature]
3	02-23-19	[Signature]

**CITY OF CALLEDON, SEWER MAIN REPLACEMENT SHEET: 3**

**CONSTRUCTION DETAILS**

**BEACH AVE.**

**BJ ENGINEERING & SURVEYING, INC.**  
341 WEST CHERRY ST. STE 200  
MURFREESBORO, TN 37055  
PHONE: 660-360-3662 FAX: 660-360-3701

**DATE:** 02-23-19  
**BY:** [Signature]  
**SCALE:** 1" = 1'-0"

