

# Gridley City Council – Regular Meeting Agenda

Monday, February 2, 2026; 6:00 pm  
Gridley City Hall, 685 Kentucky Street, Gridley, CA 95948

*"Our purpose is to continuously enhance our community's vitality and overall quality of life. We are committed to providing high quality, cost-effective municipal services and forming productive partnerships with our residents and regional organizations. We collectively develop, share, and are guided by a clear vision, values, and meaningful objectives."*

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The Public is encouraged to attend and participate in person. Comments from the public on agenda items will be accepted until 4 pm on February 2, 2026, via email to [csantana@gridley.ca.us](mailto:csantana@gridley.ca.us) or via the payment/document drop box at Gridley City Hall and will be conveyed to the Council for consideration.

You may view using the following link, ID, and passcode:

<https://us06web.zoom.us/j/81693372009?pwd=QEeonzta2kgjctovJPjqQqrfxUcLXr.1>

Passcode:710738

**CALL TO ORDER** - Mayor Farr

**ROLL CALL**

**PLEDGE OF ALLEGIANCE** – Mayor Farr

**PROCLAMATION** – None

**INTRODUCTION OF NEW OR PROMOTED EMPLOYEES** - None

**COMMUNITY PARTICIPATION FORUM** - *Members of the public may address the City Council on matters not listed on the agenda. The City Council may not discuss nor take action on any community participation item brought forward by a member of the community. Comments are requested to be limited to three (3) minutes.*

**CONSENT AGENDA** - None

**PUBLIC HEARING**

## 1. Proposition 218 Public Hearing – Solid Waste Rates

City Council to conduct a public hearing in accordance with Article XIII D of the California Constitution (Proposition 218) to consider proposed solid waste rate adjustments under the existing Waste Management agreement.

*Recommended Action(s):*

- a. Conduct the public hearing, receive public testimony and written protests, and, if no majority protest exists, adopt the proposed solid waste rates as noticed.

## ITEMS FOR CONSIDERATION –

### 2. Mid-Year Budget Review FY 25/26

City Council to review the mid-year budget and consider approval of Resolution 2026-R-003: a resolution of the city of Gridley authorizing the modification of the FY 25/26 budget by appropriating supplemental funds

*Recommended Action(s):*

- a. Approve Resolution 2026-R-003: a resolution of the City of Gridley authorizing the modification of the FY 25/26 budget by appropriating supplemental funds

### 3. Safety Element Update

City Council consideration of approval of Resolution 2026-R-004: authorizing the City Administrator to negotiate, execute, and administer a Professional Services Agreements with Atlas Planning Solutions for the Safety Element Update

*Recommended Action(s):*

- a. Approve Resolution 2026-R-004: authorizing the City Administrator to negotiate, execute, and administer a Professional Services Agreements with Atlas Planning Solutions for the Safety Element Update

### 4. Laurel Street Extension Discussion

City Council discussion and consideration of potential next steps for the Laurel Street Extension Project.

*Recommended Action(s):*

- a. Authorize the City Administrator to execute Task Order No. 16-607-300 with Bennett Engineering Services (BENEN) to manage, design, and prepare construction documents for the Laurel Street Extension Project in the amount of \$149,415, making the project shovel-ready; and/or
- b. Direct staff to pursue a Community Development Block Grant (CDBG) for construction, with an application deadline of April 2, 2025; and/or
- c. Direct staff to defer submittal of a construction grant application while proceeding with project design; or
- d. Direct staff to defer project design and pursue a planning grant in 2027.

### 5. Design and Construction Standard Specifications and Details

City Council to receive public introduction to the draft Gridley Design and Construction Standard Specifications and Details

*Recommended Action(s):*

No action is needed at this time

**COUNCIL COMMITTEE REPORTS** - *Brief reports on conferences, seminars, and meetings attended by the Mayor and City Council members, if any.*

**CITY ADMINISTRATOR REPORTS** - *Brief updates and reports on conferences, seminars, and meetings attended by the City Administrator, if any.*

**DEPARTMENT UPDATE REPORTS** – *Brief updates and reports on City services as it pertains to each department, if any.*

**POTENTIAL FUTURE CITY COUNCIL ITEMS** - *(Appearing on the Agenda within 30 days):*

Energy Efficiency Contract Review	3/2/2025
Randolph Lot Use Agreement - GUSD	3/2/2025
Steffen Estates Maintenance Assessment District Draft	3/2/2025

**CLOSED SESSION –**

6. Evaluation of performance of City Administrator pursuant to Cal. Gov. Code Section 54957(b)(1)

**ADJOURNMENT** – adjourning to a regular meeting on February 2, 2026

**NOTE 1: POSTING OF AGENDA**- This agenda was posted on the public bulletin board at City Hall at or before 6:00 p.m., January 30<sup>th</sup>, 2026. This agenda along with all attachments is available for public viewing online at [www.gridley.ca.us](http://www.gridley.ca.us) and at the Administration Counter in City Hall, 685 Kentucky Street, Gridley, CA.

**NOTE 2: REGARDING UNSCHEDULED MATTERS** – In accordance with state law, it shall be the policy of this Council that no action shall be taken on any item presented during the public forum or on unscheduled matters unless the Council, by majority vote, determines that an emergency situation exists, or, unless the Council by a two-thirds vote finds that the need to take action arose subsequent to the posting of this agenda.



## City Council Agenda Item #1

### Staff Report

**Date:** February 2, 2026

**To:** Mayor and City Council

**From:** Elisa Arteaga, City Administrator

**Subject:** Proposition 218 Public Hearing – Solid Waste Rates (Waste Management)

<input checked="" type="checkbox"/>	Regular
	Special
	Closed
	Emergency

#### **Recommendation**

Conduct the Proposition 218 public hearing for the proposed solid waste rate adjustments, consider all written protests received, and, if no majority protest exists, adopt the proposed rates as noticed.

#### **Background**

On December 17, 2025, the City mailed a Proposition 218 Notice of Public Hearing to all affected property owners regarding proposed adjustments to solid waste, green waste, and recycling rates. The notice set a public hearing before the City Council for February 2, 2026.

The mailed notice and supporting materials explained the basis for the proposed rate adjustments and provided affected parties with the opportunity to submit written protests in accordance with Article XIII D of the California Constitution (Proposition 218).

#### **No New Waste Management Contract**

There is no new contract with Waste Management being considered as part of this action. The proposed rates relate to the same Waste Management agreement that was previously noticed and approved by the City Council in 2024.

The existing agreement contains provisions that allow for rate increases when certain underlying hard costs increase. In this instance, Waste Management experienced an increase in dumping fees at the County-operated Neal Road Landfill.

Out of an abundance of caution, the City issued a new Proposition 218 notice prior to considering these rate adjustments since Waste Management has not previously exercised this provision under the current contract. The additional fees permitted by the existing agreement and the pertinent portions of the agreement are detailed in the mailed notice.

#### **Summary of Proposed Changes**

The proposed changes before the City Council today are limited to adjustments in solid waste service rates to account for:

- Increased disposal and tipping fees at the Neal Road Landfill; and
- Cost recovery provisions already included in the existing Waste Management contract.

No changes are proposed to the scope of services, contract term, or service provider.

**Fiscal Impact**

There is no direct fiscal impact to the City beyond administrative costs associated with noticing and conducting the Proposition 218 public hearing.

**Attachments**

- Proposition 218 Notice of Public Hearing (mailed December 17, 2025)
- Existing Waste Management Contract valid through December 31, 2028 (approved March 2024)



*City of Gridley*  
685 Kentucky St., Gridley CA 95948  
(530) 846-3631  
[www.gridley.ca.us](http://www.gridley.ca.us)

## **Notice of Public Hearing Proposed Rate Increase for Collection and Disposal of Solid Waste**

**NOTICE IS HEARBY GIVEN** that the City Council of the City of Gridley, on Monday February 2nd, 2026, will hold a public hearing commencing at Gridley City Hall Council Chambers, 685 Kentucky St., Gridley, CA 95948 at 6:00 pm, to consider the following item:

### **ADOPTION OF PROPOSED RATE INCREASE FOR COLLECTION OF SOLID WASTE, GREEN WASTE, AND RECYCLABLES**

This notice is given as a required Proposition 218 notice that is to be mailed to all impacted property owners and customers to advise of proposed rate changes. To view the proposed rates and contract please visit the City of Gridley's website [gridley.ca.us/notice/prop218-wastemanagement](http://gridley.ca.us/notice/prop218-wastemanagement). For any further questions please email Rachel Haines with Waste Management at [rhaines@wm.com](mailto:rhaines@wm.com). The agenda and staff report will be published on the Friday before the scheduled City Council meeting at [gridley.ca.us/government-and-departments/city-council/](http://gridley.ca.us/government-and-departments/city-council/)

**Public Hearing Before: Gridley City Council**

**Hearing Date: Monday February 2nd, 2026, at 6:00 p.m.**

**Location: Gridley City Hall - Council Chambers, 685 Kentucky Street, Gridley, CA 95948**

Affected property owners or customers of record subject to the imposition of the proposed rate adjustments have the right to submit written protests against the proposed rates. Written protests must be mailed to the address below or may also be hand delivered to the City Clerk at the February 2, 2026, City Council Meeting - Public Hearing in order to be counted. Protests may not be delivered electronically or verbally. Any written protest must: (1) state that the identified property owner or customer is in opposition to the proposed rates increase; (2) provide the location of the identified parcel (by assessor's parcel number, street address, or customer account); and (3) include the name and signature of the person submitting the protest. Although oral comments at the public hearing will not qualify as a formal protest unless accompanied by a written protest, the City of Gridley welcomes input from the community during the public hearing on the proposed solid waste rates. Only one protest may be registered per property.

**Mail Protests to: City of Gridley, City Clerk, 685 Kentucky Street, Gridley, CA 95948**

Please see proposed rate schedules attached



*City of Gridley*  
685 Kentucky St., Gridley CA 95948  
(530) 846-3631  
[www.gridley.ca.us](http://www.gridley.ca.us)

## **Aviso de Audiencia Pública**

### **Propuesta de Aumento de Tarifas para la Recolección y Eliminación de Desechos Sólidos**

**SE DA AVISO** de que el Concejo Municipal de la Ciudad de Gridley, el lunes 2 de Febrero de 2026, llevará a cabo una audiencia pública que comenzará en las Cámaras del Concejo del Ayuntamiento de Gridley, 685 Kentucky St., Gridley, CA 95948 a las 6:00 pm, para considerar el siguiente tema:

#### **ADOPCIÓN DE LA PROPUESTA DE AUMENTO DE TARIFAS PARA EL COBRO DE RESIDUOS SÓLIDOS, RESIDUOS VERDES Y RECICLABLES**

Este aviso se entrega como un aviso requerido de la Proposición 218 que debe enviarse por correo a todos los propietarios y clientes afectados para informar sobre los cambios de tarifas propuestos. Para ver las tarifas propuestas y el contrato, visite el sitio web de la ciudad de Gridley [gridley.ca.us/notice/prop218-wastemanagement](http://gridley.ca.us/notice/prop218-wastemanagement). Si tiene más preguntas, envíe un correo electrónico a Rachel Hines de Waste Management at [rhines@wm.com](mailto:rhines@wm.com). La agenda y el informe del personal se publicarán el viernes antes de la reunión programada del Concejo Municipal en [gridley.ca.us/government-and-departments/city-council/](http://gridley.ca.us/government-and-departments/city-council/).

**Audiencia Pública Ante: Concejo Municipal de Gridley**

**Fecha de Audiencia: Lunes 2 de Febrero de 2026 a las 6:00 p.m.**

**Ubicación: Ayuntamiento de Gridley - Cámaras del Consejo, 685 Kentucky Street, Gridley, CA 95948**

Los propietarios afectados o los clientes registrados sujetos a la imposición de los ajustes de tarifas propuestos tienen derecho a presentar protestas por escrito contra las tarifas propuestas. Las protestas por escrito deben enviarse por correo a la dirección que se indica a continuación o también pueden entregarse personalmente al Secretario Municipal en la reunión del Concejo Municipal del 2 de Febrero de 2026 - Audiencia Pública para ser contados. Las protestas no pueden ser entregadas electrónica o verbalmente. Cualquier protesta por escrito debe: (1) declarar que el propietario o cliente identificado se opone al aumento de tarifas propuesto; (2) Proporcione la ubicación de la parcela identificada (por número de parcela del evaluador, calle dirección, o cuenta de cliente); y (3) incluir el nombre y la firma de la persona que presenta la protesta. Aunque los comentarios orales en la audiencia pública no calificarán como una protesta formal a menos que vayan acompañados de una protesta por escrito, la Ciudad de Gridley agradece los comentarios de la comunidad durante la audiencia pública sobre las tarifas propuestas para los desechos sólidos. Solo se puede registrar una protesta por propiedad.

**Envíe las protestas por correo a:** City of Gridley, City Clerk, 685 Kentucky Street, Gridley, CA 95948



**CITY OF GRIDLEY**  
**Annual Rate Adjustment**  
**Effective ~~1/1/2026~~ 3/1/2026**  
**Residential Rates**

Adjustment
6.62%

<b>Residential Carts</b>			
<b>Service</b>	<b>Current Rate</b>	<b>Adjustment</b>	<b>Rate</b>
<b>35 gallon - Senior</b>	\$23.22	\$1.54	\$24.76
<b>35 gallon</b>	\$27.61	\$1.83	\$29.44
<b>64 gallon</b>	\$31.91	\$2.11	\$34.02
<b>95 gallon</b>	\$37.33	\$2.47	\$39.80
<b>Add'l 35 gallon</b>	\$13.80	\$0.91	\$14.71
<b>Add'l 64 gallon</b>	\$15.96	\$1.06	\$17.02
<b>Add'l 90 gallon</b>	\$18.66	\$1.24	\$19.90

<b>Extra Pickup Charges</b>			
<b>Service</b>	<b>Current Rate</b>	<b>Adjustment</b>	<b>Rate</b>
<b>35 gallon</b>	\$11.34	\$0.75	\$12.09
<b>64 gallon</b>	\$13.01	\$0.86	\$13.87
<b>95 gallon</b>	\$13.01	\$0.86	\$13.87
<b>Bag</b>	\$6.09	\$0.40	\$6.49

<b>Ancillary Charges</b>			
<b>Service</b>	<b>Current Rate</b>	<b>Adjustment</b>	<b>Rate</b>
<b>Long walk service. Up to 100 feet</b>	\$13.19	\$0.87	\$14.06
<b>Long walk service. 101 to 200 feet</b>	\$26.45	\$1.75	\$28.20
<b>Overfull Container (Snapshot)</b>	\$11.75	\$0.78	\$12.53
<b>Contamination charge</b>	\$14.11	\$0.93	\$15.04
<b>Extra Pickup / Go Back Charge</b>	\$60.40	\$4.00	\$64.40
<b>Replace lost or stolen cart</b>	\$114.11	\$7.56	\$121.67
<b>Replace or Exchange damaged container (not caused by WM)</b>	\$114.11	\$7.56	\$121.67
<b>Account reactivation charge (from bad pay) - no cart delivery</b>	\$60.40	\$4.00	\$64.40
<b>Account reactivation charge (from bad pay) - w/ cart delivery</b>	\$107.42	\$7.11	\$114.53
<b>Late Payment charge</b>	2.5% of balance (\$5.00 min. Chg.)	N/A	2.5% of balance (\$5.00 min. Chg.)



CITY OF GRIDLEY  
Annual Rate Adjustment  
Effective ~~1/1/2026~~ 3/1/2026  
Commercial Rates

Adjustment
6.62%

Commercial Carts	Rate
35 gallon	\$39.48
64 gallon	\$55.63
95 gallon	\$96.22
Add'l 35 gallon	\$37.99
Add'l 64 gallon	\$55.63
Add'l 90 gallon	\$96.22

	1 x Week	2 x Week	3 x Week	4 x Week	5 x Week	6 x Week
Commercial Bin Rates - Quantity 1	Rate	Rate	Rate	Rate	Rate	Rate
1 Yard	\$172.16	\$277.76	\$383.42	\$489.04	\$594.66	\$757.73
1.5 Yard	\$210.99	\$343.19	\$474.02	\$606.25	\$737.09	\$938.97
2 Yard	\$277.02	\$451.29	\$625.52	\$799.78	\$972.55	\$1,240.53
3 Yard	\$343.08	\$559.30	\$775.55	\$993.28	\$1,209.52	\$1,543.57
4 Yard	\$407.68	\$667.35	\$927.13	\$1,186.71	\$1,446.39	\$1,845.09
5 Yard	\$473.78	\$775.44	\$1,078.54	\$1,380.24	\$1,681.93	\$2,146.66
6 Yard	\$539.84	\$884.92	\$1,228.62	\$1,573.76	\$1,918.86	\$2,448.22
8 Yard	\$670.49	\$1,101.04	\$1,530.17	\$1,960.76	\$2,391.29	\$3,052.77

	1 x Week	2 x Week	3 x Week	4 x Week	5 x Week	6 x Week
Commercial Bin Rates - Quantity 2	Rate	Rate	Rate	Rate	Rate	Rate
1 Yard	\$335.86	\$547.06	\$758.30	\$969.54	\$1,182.27	\$1,506.90
1.5 Yard	\$413.38	\$676.37	\$939.44	\$1,202.53	\$1,465.63	\$1,869.42
2 Yard	\$545.47	\$894.02	\$1,241.03	\$1,589.59	\$1,938.01	\$2,473.98
3 Yard	\$676.18	\$1,110.10	\$1,544.04	\$1,976.61	\$2,410.54	\$3,077.08
4 Yard	\$808.32	\$1,326.15	\$1,845.74	\$2,363.50	\$2,882.78	\$3,681.65
5 Yard	\$939.06	\$1,543.80	\$2,147.14	\$2,751.94	\$3,355.40	\$4,284.74
6 Yard	\$1,071.11	\$1,759.84	\$2,448.69	\$3,139.00	\$3,827.79	\$4,889.37
8 Yard	\$1,332.42	\$2,193.55	\$3,053.22	\$3,912.93	\$4,772.60	\$6,097.02

	1 x Week	2 x Week	3 x Week	4 x Week	5 x Week	6 x Week
Commercial Bin Rates - Quantity 3	Rate	Rate	Rate	Rate	Rate	Rate
1 Yard	\$498.05	\$816.30	\$1,133.22	\$1,451.51	\$1,768.40	\$2,256.09
1.5 Yard	\$617.26	\$1,011.03	\$1,404.94	\$1,798.78	\$2,194.18	\$2,799.84
2 Yard	\$813.94	\$1,335.31	\$1,857.99	\$2,380.83	\$2,902.01	\$3,705.98
3 Yard	\$1,010.73	\$1,660.88	\$2,311.03	\$2,961.31	\$3,611.54	\$4,612.09
4 Yard	\$1,207.45	\$1,984.95	\$2,764.33	\$3,541.69	\$4,319.26	\$5,516.76
5 Yard	\$1,404.26	\$2,310.71	\$3,217.18	\$4,122.18	\$5,028.79	\$6,422.89
6 Yard	\$1,600.96	\$2,634.81	\$3,668.76	\$4,704.23	\$5,738.15	\$7,329.02
8 Yard	\$1,994.39	\$3,284.61	\$4,574.86	\$5,865.19	\$7,155.33	\$9,139.83

	1 x Week	2 x Week	3 x Week	4 x Week	5 x Week	6 x Week
Multi-Unit Residential Bin Rates	Rate	Rate	Rate	Rate	Rate	Rate
1 Yard	\$152.84	\$245.93	\$339.01	\$432.04	\$525.11	\$664.21
1.5 Yard	\$186.95	\$302.14	\$417.38	\$534.01	\$649.23	\$823.17
2 Yard	\$245.22	\$397.37	\$550.96	\$704.56	\$856.69	\$1,087.63
3 Yard	\$302.04	\$492.57	\$683.11	\$873.65	\$1,064.14	\$1,352.10
4 Yard	\$360.30	\$587.78	\$816.71	\$1,044.12	\$1,273.01	\$1,615.05
5 Yard	\$417.16	\$682.98	\$948.78	\$1,214.66	\$1,480.49	\$1,879.55
6 Yard	\$475.42	\$778.18	\$1,082.40	\$1,385.18	\$1,687.95	\$2,143.98
8 Yard	\$590.49	\$968.57	\$1,346.64	\$1,726.15	\$2,104.25	\$2,672.89

**CPI ADJUSTMENT.** The Service Rates set forth in Exhibit 2 shall be adjusted on January 1st of each year, beginning January 1, 2025 and annually thereafter to reflect one-hundred percent (100%) of the annual change in the Consumer Price Index, series CUUR0000SEHG CPI-U Water and Sewer and Trash Collection Services, US City Average, not seasonally adjusted, as published by the United States Department of Labor, Bureau of Labor Statistics (CPI). Annual CPI adjustments shall have a 2% floor and 5% cap. If an annual CPI adjustment would otherwise be lower than 2% or above 5%, such difference will be applied to the following year's CPI adjustment. The Company shall submit a formal Request for Service Rates Adjustment to the City on an annual basis no later than November 1st of the current year.

**EXTRAORDINARY SERVICE RATE REVIEW REQUEST.** In addition to the annual CPI adjustment, the Service Rates shall, upon written request of Company, be further adjusted to fully capture increased expenses and lost revenue associated with performance of the services hereunder due to any one or more of the following causes: Uncontrollable Circumstance; Changes in Applicable Law that is effective after the Effective Date of this Agreement; Increase in surcharges, fees, assessments or taxes levied by federal, state or local regulatory authorities or other governmental entities related to the Franchise Services; Processing facility and disposal facility/landfill tip fees that are not regulated by the Company or an affiliate of the Company. Any other extraordinary circumstances or causes or reasons that are not within the reasonable control of Company.

If Company requests a Service Rates adjustment, it shall prepare a Service Rates adjustment request setting forth its calculations of the increased costs/lost revenue and accompanying adjustment to the Service Rates necessary to offset such increased costs/ lost revenue. The City may request documentation and data reasonably necessary to evaluate such request by Company, and may retain, at its own expense, an independent third party to audit and review such documentation and request. If such third party is retained, the City shall take reasonable steps, consistent with Applicable Law, to protect the confidential or proprietary nature of any data or information supplied by Company. The City shall approve all properly calculated Service Rates adjustments within ninety (90) days of Company's request, and the adjusted Service Rates shall be deemed to take effect as of the date of Company's request. In addition, if the request is based upon any new or increased third party fees taxes, assessments or charges, the City shall approve the Service Rates adjustment within such time period as necessary to ensure that such fees, taxes, assessments or charges are passed on to Service Recipients by the date the same are effective.

Commercial Recycling	Rate
64 Gallon - EOW	\$35.11
2 Yard - 1xWeek	\$104.09
3 Yard - 1xWeek	\$110.37
4 Yard - 1xWeek	\$119.14
6 Yard - 1xWeek	\$135.45

Extra Pickup Charges	Rate
35 gallon	\$12.42
64 gallon	\$14.27
95 gallon	\$14.27
Bag	\$6.63
1 Yard	\$75.15
1.5 Yard	\$89.42
2 Yard	\$111.37
3 Yard	\$146.49
4 Yard	\$173.19
5 yard	\$201.73
6 Yard	\$230.28
7 Yard	\$258.86
8 Yard	\$287.33

Ancillary Charges	Rate
Extra pickup non-service day Trip Charge	\$143.12
Contamination Bin	\$68.97
Contamination Cart	\$21.32
Lock bar and lock - one time installation charge	\$193.22
Lock service charge	\$1.42
Container clean/exchange	\$214.72
Replace lost or stolen container	WM Replacement Cost + 25%
Replace container. Damage not caused by WM	WM Replace/Repair Cost + 25%
Overfull Bin (Snapshot)	\$100.33
Overfull Cart (Snapshot)	\$18.82
Account reactivation charge (from bad pay) - no delivery	\$64.40
Account reactivation charge (from bad pay) - w/ delivery	\$279.13
Late Payment charge	2.5% of balance (\$5.00 min. Chg.)

**AMENDED AND RESTATED AGREEMENT  
BETWEEN THE CITY OF GRIDLEY AND  
USA WASTE OF CALIFORNIA, INC.,  
FOR COLLECTION OF SOLID WASTE, GREEN WASTE, RECYCLABLES, AND  
TRANSFER STATION OPERATION SERVICES  
FRANCHISE AGREEMENT**

THIS AMENDED AND RESTATED AGREEMENT (this “Agreement”) is made and entered into effective as of March 5<sup>th</sup>, 2024 between the City of Gridley (the “City”), and USA Waste of California Inc. (the “Company”). Unless otherwise specified in this Agreement, any action authorized, or required to be taken by the City may be taken by the City Council (the “Council”) or by the City Administrator.

In consideration of the mutual covenants in this Agreement, as amended and restated, and intending to be legally bound, the parties agree as follows:

1. **DEFINITIONS.** For purposes of this Agreement the following words or phrases shall have the following meanings.
  - 1.1. **Act.** Act means the California Integrated Waste Management Act of 1989, California Public Resources Code (“PRC”) sections 40000 et seq., as amended, supplemented, superseded, and replaced by the California legislature from time to time. All state code references are to the PRC unless otherwise noted. In the event of any inconsistency between the definitions set forth below and those in the PRC or the California Code of Regulations (“CCR”) related to solid waste, the PRC and/or the CCR shall prevail.
  - 1.2. **Applicable Law.** Applicable Law means all laws, ordinances, municipal code, resolutions, regulations, rules, orders, judgments, decrees, permits, approvals, or other requirement of any governmental agency having jurisdiction over the collection, handling, processing, and disposition of Franchise Materials that are in force on the Effective Date and as they may be enacted, issued or amended during the term of this Agreement.
  - 1.3. **Bins.** Bins shall mean those containers provided by the Company for Commercial Customers and Multiple-Family Dwellings. The Bins are of two types: (i) Bins which are picked up by trucks designed for Solid Waste, C&D and Recycling by means of front-loading apparatus; and (ii) roll-off Bins (also known as a Debris Box or Drop Box) (which are usually much larger in size).
  - 1.4. **Bulky Waste.** Bulky Waste means large household items that do not properly fit in the Customer’s Cart, or bundled or bagged Solid Waste, that do not exceed four feet by four feet by two feet (4’x4’x2’) and weigh no more than sixty (60) pounds, which are attributed to the normal activities of a Single-Family Premises. Such materials may include furniture, area and floor rugs properly prepared (cut and bundled), mattresses (must be wrapped in plastic), appliances, and tires without rims. All liquids must be

drained; no item may contain Freon. Bulky Waste excludes any Excluded Waste, as well as automotive parts, tree stumps, oil and gas, propane tanks, C&D Debris, and batteries.

- 1.5. **City Representative**. City Representative means the City Administrator, or designee.
- 1.6. **Cart**. Cart means an industry standard receptacle for disposal of Franchise Materials, in a range of sizes including approximately 35, 64, or 96 gallons. A Cart will have wheels, a handle for ease of movement and a fitted, attached lid, and is designed to be dumped mechanically into a Solid Waste or Recyclables collection vehicle.
- 1.7. **Collection or Collection Service**. Collection or Collection Service shall mean all or any part of the activities involved in the Collection of Franchise Materials specified in this Agreement and its transportation to and disposal at a Disposal Site or Recycling facility.
- 1.8. **Commercial Customer**. Commercial Customer is a Customer that receives Commercial Service including, but not limited to, those Multiple-Family Dwellings and Mobile Home Park Customers that use Bin service.
- 1.9. **Commercial Premises**. Commercial Premises shall mean all industrial, manufacturing, warehouse, wholesale or retail stores, service establishments, professional offices, other business establishments, and government facilities and schools and construction sites, and Multiple-Family Dwellings.
- 1.10. **Commercial Recycling**. Commercial Recycling means the collection, processing and marketing of those Recyclable Materials that are collected from Commercial Customers under this Franchise on an exclusive basis.
- 1.11. **Commercial Service**. Commercial Service means Bin or Cart service provided under this Franchise to Commercial Premises and Bin service provided to Multiple-Family Dwellings and Mobile Home Parks.
- 1.12. **Compactor**. Compactor means a compacting unit that loads a detachable or non-detachable Bin or Debris Box. The detachable or non-detachable Bin or Debris Box serves as a receptacle of Solid Waste, and has a capacity of one (1) cubic yard or larger. The Bin or Debris Box is picked up by a collection vehicle for emptying at a separate location.
- 1.13. **Company Service Fee**. Company Service Fee means the compensation provided to the Company for services performed pursuant to this Agreement.
- 1.14. **Construction and Demolition Debris or C&D**. Construction and Demolition Debris or C&D has the meaning provided in Title 14, Division 7, Section 17388(c) of the CCR or successor laws and regulations as may be amended from time to time, but not including any Excluded Waste.

1.15. **CPI Adjustment.** CPI Adjustment means the annual Service Rates adjustment as specified in Section 6.2.

1.16. **Curb or Curbside.** Curb or Curbside shall mean that part of the homeowner's property, within five feet of the Public Street or alley without blocking sidewalks, driveways or on-street parking. If extraordinary circumstances preclude such a location, Curbside shall be considered a placement suitable to the resident, convenient to the Company's equipment, and mutually agreed to by the homeowner and the Company.

1.17. **Customer.** Customer means an individual or entity that receives Franchise Services provided by the Company. Customer shall also mean the person, organization or corporation receiving Disposal service for Franchise Materials to which billing statements are sent. Customer also means those Generators of Recyclable Materials in the Service Area to whom the Company provides and the Customer pays for Collection Service under this Agreement.

1.18. **Debris Box/Temporary Bins.** Debris Box means a receptacle for Solid Waste and C&D having a capacity of twenty (20) cubic yards or greater that is picked up in its entirety by a dedicated truck for emptying at a separate location. Also known as a roll-off box or drop box. Temporary Bins or "temp bins" will be containers with a capacity greater than a 96 gallon cart and less than the twenty cubic yard debris box.

1.19. **Discretionary Adjustment.** Discretionary Adjustment is defined in Section 6.5.

1.20. **Disposal.** Disposal has the meaning provided in PRC Section 40120.1 or successor laws and regulations as may be amended from time to time.

1.21. **Disposal Fees.** Disposal Fees shall mean the charges imposed by the Disposal Site.

1.22. **Disposal Site.** Disposal Site has the meaning provided in PRC Section 40122 or successor laws and regulations as may be amended from time to time.

1.23. **Effective Date.** Effective Date means January 1, 2024, the date that Franchise Services shall commence under this Agreement, as amended.

1.24. **Electronic Waste or E-Waste.** Electronic Waste or E-Waste means waste containing or consisting of electronic devices and components, such as computers, monitors, terminals, computer cards and components, computer peripheral devices, main frame computers, keyboards, mice, printers and scanners, mini-systems, power supply units, servers, connectors/cables, storage discs, consumer electronics, printed circuit boards, televisions, chips and components, cellular and other phones, telecommunications equipment, and fax machines and copiers, but not including Excluded Waste.

1.25. **Excluded Waste.** Excluded Waste means Hazardous Waste, Medical and Infectious Waste, volatile, corrosive, biomedical, infectious, biohazardous, and toxic substances or material, waste that Company reasonably believes would, as a result of or upon disposal, be a violation of Applicable Law, including land use restrictions or conditions, waste that cannot be disposed of in Class III landfills, waste that in Company's reasonable opinion would present a significant risk to human health or the environment, cause a nuisance or otherwise create or expose Company or City to potential liability, and Special Waste; not including de minimis volumes or concentrations of waste of a type and amount normally found in residential solid waste after implementation of programs for the safe collection, recycling, treatment and disposal of batteries and paint in compliance with PRC 41500 and 41802.

1.26. **Franchise.** Franchise means the rights granted to the Company under the terms and conditions of this Agreement.

1.27. **Franchise Fee.** Franchise Fee means an amount paid to the City by Company for the right to provide Collection Services, as further agreed in Section 3.1 of this Agreement.

1.28. **Franchise Materials.** Franchise Materials means all Solid Waste, Recyclable Materials, Construction & Demolition Debris and Green Waste generated in the Service Area and included within the Franchise. At the Company's option, "Franchise Materials" shall also include any other materials that can now or in the future be disposed of in Class III landfills. It is the intention of the Parties to maximize the scope of the Company's exclusive franchise within the Service Area by including within the definition of "Franchise Materials" those materials that can be safely Collected, Transported, Disposed of or Recycled using commercially reasonable methods.

1.29. **Franchise Services.** Franchise Services means all of the duties and obligations of the Company hereunder as stated in this Agreement. Company shall notify the City should there be more than a 24-hour delay in the service schedules included in this Agreement or as amended to this Agreement.

1.30. **Fuel Cost Adjustment.** Fuel Cost Adjustment is defined in Section 6.3.

1.31. **Generator.** Generator has the meaning used in the laws governing Hazardous Waste, but applies in this Agreement not only to Hazardous Waste but also to all other materials.

1.32. **Green Waste.** Green Waste means all tree and plant trimmings, grass cuttings, dead plants, weeds, leaves, branches, and similar materials that fit into a Green Waste Cart, but not including Excluded Waste or items with a diameter greater than 10 inches.

1.33. **Green Waste Processing Facility.** Green Waste Processing Facility means the facility(ies) used by the Company for handling, processing, and preparing collected Green Waste for marketing.

- 1.34. **Gross Revenues**. Gross Revenues has the meaning provided in Section 3.1
- 1.35. **Hazardous Waste**. Hazardous Waste has the meaning provided in PRC Section 40141 or successor laws and regulations as may be amended from time to time.
- 1.36. **Household Hazardous Waste (or HHW)**. Household Hazardous Waste shall have the meaning set forth in California Health and Safety Code Section 25218 and in Title 14, CCR, Section 18502 or successor laws and regulations as may be amended from time to time, but not including any Excluded Waste.
- 1.37. **Inaccessible Area**. Inaccessible Area shall mean any road, alley or property that does not allow safe access, turn-around, or clearance for standard collection vehicles.
- 1.38. **Medical and Infectious Waste**. Medical and Infectious Waste means biomedical waste generated at residences in excess of legal limits or at hospitals, public or private medical clinics, dental offices, research laboratories, pharmaceutical industries, blood banks, mortuaries, veterinary facilities and other similar establishments.
- 1.39. **Mobile Home Parks**. Mobile Home Parks means a site at which mobile home spaces are rented for residential use. Mobile Home Parks, at the Owner's request, may be provided with Residential Service using Carts or Commercial Service using Bins.
- 1.40. **Multiple-Family Dwellings**. Multiple-Family Dwellings means any building or structure, or portion thereof used for residential purposes and having four (4) or more distinct living units. Multiple-Family Dwellings, at the Owner's request, may be provided with Residential Service using Carts or Commercial Service using Bins.
- 1.41. **Owner**. Owner shall mean the person, organization or corporation holding legal title to the real property constituting the Residential Premises to which Collection Service for Franchise Materials is provided. For the purposes of provisions in this Agreement pertaining to the sending of notices, billings or other communications by Company to an Owner, Company may regard as Owner the person, organization, corporation or other entity shown in the records of the assessor of Nevada County or as may be indicated by documents recorded in the Nevada County Clerk-Recorder's Office.
- 1.42. **Parties**. Parties mean the City and the Company.
- 1.43. **PRC**. PRC has the meaning provided in Section 1.1.
- 1.44. **Private Drive(s)**. Private Drive(s) shall mean a privately owned or maintained way.
- 1.45. **Private Road(s)**. Private Road(s) shall mean a privately owned or maintained way that allows for access by a small wheel base service truck and which serves four or more Residences.

1.46. **Processing or Process.** Processing or Process shall mean treatment, sorting, or other activities intended to improve the market value of a Recyclable.

1.47. **Public Street(s).** Public Street(s) shall mean a public way used for public travel.

1.48. **Recyclable Construction and Demolition Debris or Recyclable C&D.** “Recyclable Construction and Demolition Debris” or “Recyclable C&D” means Construction and Demolition Debris or C&D that is disposed of in a Cart or Debris Box or other receptacle that contains no more than 5% non-Recyclables.

1.49. **Recycle, Recycling.** Recycle, Recycling has the meaning provided in PRC Section 40180 or successor laws and regulations as may be amended from time to time.

1.50. **Recycling Carts.** Recycling Carts shall mean a Recycling Cart or other wheeled Cart owned by the Company, suitable for on-site collection, storage, and set-out of Recyclables.

1.51. **Recyclable Materials, Recyclables.** Recyclable Materials or Recyclables means that portion of Solid Waste which is material for new, reused, or reconstituted products which meet the quality standards necessary to be used in the marketplace, but not including Excluded Waste. Recyclable means that portion of Franchise Materials which may be separated on a commercially reasonable basis from other Franchise Materials and returned to the economic mainstream in the form of raw material for new, reused, or reconstituted products which meet the quality standards necessary to be used in the marketplace. As of the Effective Date, the Recyclable Materials are as provided in Exhibit 1.

1.52. **Recyclables Processing Facility.** Recyclables Processing Facility means the facility(ies) used by the Company for handling, processing, and preparing collected Recyclable Materials for marketing.

1.53. **Recycling Program.** Recycling Program shall mean an effort by the City to offer convenient and affordable recycling opportunities to all residents of City.

1.54. **Recycling Revenues.** Recycling Revenues means all revenues, net of transportation or processing costs, resulting from the sale of Recyclable Materials, Construction and Demolition Debris and Green Waste collected through provision of Franchise Services.

1.55. **Residential Customer.** Residential Customer is a Customer that receives Residential Service including those Multiple-Family Dwellings and Mobile Home Park Customers that use Solid Waste Cart Service.

1.56. **Residential Recycling**. Residential Recycling means the collection, processing and marketing of those Recyclable Materials that are collected from Residential Customers under this Franchise on an exclusive basis.

1.57. **Residential Service**. Residential Service means Collection Service for Franchise Materials normally provided under this Franchise to all Single-Family Residences and those Multiple-Family Dwellings and Mobile Home Parks that receive Solid Waste Cart Service.

1.58. **SB 1383 Regulations**. SB 1383 Regulations means to the Short-Lived Climate Pollutants (SLCP): Organic Waste Reductions regulations developed by CalRecycle and adopted in 2020 that created Chapter 12 of 14 CCR, Division 7 and amended portions of regulations of 14 CCR and 27 CCR., as they may be amended.

1.59. **Self Haul**. Self Haul means the transport of Franchise Materials from a residence or Commercial Premises, where the materials being generated are taken directly to an authorized landfill or transfer station. The transport must be accomplished by the resident, Owner or commercial/business/industrial entity that generates the Franchise Materials and may not be transported by a company, agent or other third-party hired for such use except as provided in Section 2.3 of this Agreement.

1.60. **Service Area**. Service Area shall mean the jurisdictional boundary of the City including all areas hereafter annexed or otherwise added to the territorial limits of the City.

1.61. **Service Rates**. Service Rates means the Company fees for providing the Franchise Services, as initially set forth in Exhibit 2. The Service Rates include the Franchise Fee.

1.62. **Signature Date**. Signature Date means the date of execution of this Agreement by both Parties.

1.63. **Single-Family Residence(s)**. Single-Family Residence(s) shall mean all one unit houses and mobile homes, any building or structure, or portion thereof, that is used for residential housing purposes and has two (2) or fewer distinct living units.

1.64. **Solid Waste**. Solid Waste shall mean and include all Solid Waste as defined in PRC Section 40191 and regulations or successor laws and regulations as may be amended from time to time generated within the Service Area that can be disposed of in Class III landfills. Excluded from the definition of Solid Waste are Excluded Waste, Bulky Wastes, Special Wastes, Recyclable Materials, Green Waste, and Construction and Demolition Debris. Notwithstanding any provision to the contrary, "Solid Waste" may include de minimis volumes or concentrations of waste of a type and amount normally found in residential solid waste after implementation of programs for the safe collection, recycling, treatment and disposal of batteries and paint in compliance with PRC Sections 41500 and 41802.

1.65. **Special Services.** Special Services are specific service-related activities, including without limitation lock, gate, and long walk services, or other services for which no Service Rate is established by the City, that is provided by the Company to Customers for which the Company may charge an additional fee.

1.66. **Special Waste.** Special Wastes include flammable waste, waste transported in a bulk tanker, liquid waste, sewage sludge, pollution control process waste, residue and debris from the cleanup of a hazardous material spill or release of chemical substances, commercial products or any other Special Wastes; contaminated soil, waste, residue, debris and articles from the cleanup of a site or facility formerly used for the generation, storage, treatment, Recycling, reclamation, or Disposal of any other Special Wastes; dead animals, manure, waste water, explosive substances, and radioactive substances.

1.67. **State.** State means the State of California.

1.68. **Ton.** Ton means a “short ton” of 2,000 pounds.

1.69. **Transfer Station Operations/Transfer Station Operation Services.** Transfer Station Operations/Transfer Station Operation Services means all of the services associated with the operation of the Ord Ranch Road Transfer Station, as provided in this Agreement.

1.70. **Transport.** Transport means the hauling of Franchise Materials to a Disposal Site.

1.71. **Uncontrollable Circumstances.** Uncontrollable Circumstances are any acts of God, such as landslides, lightning, fires, storms, floods, pestilence, freezing, and earthquakes; explosions, sabotage, civil disturbances, acts of a public enemy, wars, blockades, riots, labor unrest, eminent domain, condemnation or other taking, or other events of a similar nature, not caused or maintained by the City or Company, which event is not reasonably within the control of the party claiming the excuse from its obligations due to such event, to the extent such event has a material adverse effect on the ability or costs of a Party to perform its obligations thereunder. Events which could have been prevented by reasonable precautions, including compliance with agreements and applicable laws, shall not be considered an Uncontrollable Circumstance. Labor unrest, including but not limited to strike, work stoppage or slowdown, sickout, picketing, or other concerted job action lawfully conducted by the Company's employees or lawfully directed at the Company, or a subsidiary, are not considered Uncontrollable Circumstances, but shall excuse performance to the extent provided in Section 9.5.

## **2. GRANT OF EXCLUSIVE AGREEMENT.**

### **2.1. SCOPE OF EXCLUSIVE FRANCHISE.**

- 2.1.1. City hereby grants to Company, for the term hereinafter set forth, the exclusive right and privilege to collect and transport Franchise Materials to any legally authorized Disposal Site, Green Waste Processing Facility, or Recyclables Processing Facility, unless otherwise exempt from Collection pursuant to the terms and conditions of Section 2.3 of this Agreement. Participation in the Company's Solid Waste, Recycling and Green Waste programs shall be mandatory for Residential and Commercial Customers.
- 2.1.2. The Company shall have the exclusive right and responsibility for the operation of the Ord Ranch Road Transfer Station, in accordance with the provisions of this Agreement, for the term of this Agreement and any extensions thereof.
- 2.1.3. The Company shall dispose of all Solid Waste collected under this Agreement at the designated Disposal Site. The Disposal Site the Company has designated shall be the Neal Road Landfill owned by the County of Butte. The Company reserves the right to direct the Company to dispose of Solid Waste at a particular licensed Disposal Site (which must be a Class III disposal site) suitable for municipal waste.

**2.2. COMPANY RESPONSIBILITY.** The Company hereby accepts and assumes responsibility to perform and fulfill all the terms, covenants, conditions, and obligations required under this Agreement. Company agrees to perform all of its obligations under this Agreement for the term hereof. Company shall furnish all the labor and equipment necessary for the Collection, Processing, Transport and Disposal of all Franchise Materials, subject to the terms, conditions and provisions of this Agreement.

**2.3. EXCEPTIONS TO FRANCHISE.** The following services and materials are expressly excluded from this Agreement. However, the granting of this Franchise shall not preclude an Owner or Customer from contracting for the categories of services and materials described below to be delivered to, collected and/or transported by the Company or others, provided that nothing in this Franchise is intended to or shall be construed to excuse any person from any authorization from the City which is otherwise required by law.

2.3.1. Compactors for Recyclables. Rental, lease or sale of Compactors, provided that the Company shall have the exclusive right to provide hauling services for Compactors unless used exclusively for the collection of Recyclable Materials, including Recyclable C&D, in which at least ninety-five percent (95%) of each load is actually Recycled and for which the Generator receives payment.

2.3.2. Self-Hauling. Self-Haul materials, which are delivered by a person or entity directly to a disposal facility. Persons or entities cannot subcontract any portion of the Self-Haul to any entity other than the Company. This provision does not allow persons or entities to purchase, borrow or rent Bins or Carts or other containers and have them collected by a third-party.

2.3.3. Incidental Hauling. Materials which would otherwise constitute Franchise Materials that are removed from a premise by a company as an incidental part of a gardening, landscaping, tree trimming, cleaning, maintenance, construction, handyman, tractor or similar service offered by that company rather than as a waste hauling service. This provision does not allow the hauling of materials by any business hired solely for the purposes of hauling and/or removal of debris.

2.3.4. Construction and Demolition Debris. Construction and Demolition Debris materials removed from a work or construction/demolition site by a company or business generating the C&D and Self Hauled or incidentally hauled as provided in Sections 2.3.2 and 2.3.3.

2.3.5. Recyclable C&D. Recyclable C&D, in which at least ninety-five percent (95%) of each load is actually Recycled and for which the Generator receives payment.

2.3.6. Residential Recyclables. Recyclable Materials donated or sold by Residential Customers from Single-Family Residences or Multiple-Family Dwellings, or from Mobile Home Parks, to any party of their choice, in which at least ninety-five percent (95%) of each load is actually Recycled and that the Generator donated or for which the Generator receives payment.

2.3.7. Commercial Recyclables. Commercial Recyclable Materials in which at least ninety-five percent (95%) of each load is actually Recycled and for which the Generator receives payment.

2.3.8. Governmental Entities. The Company's exclusive Franchise in this Agreement shall not include governmental entities if and to the extent the City has no legal power to include them in the exclusive Franchise.

**2.4. TERM OF AGREEMENT.** The initial term of this Agreement shall commence January 1, 2024 and end at the close of business on December 31, 2028. Thereafter, the parties may agree in writing to extend the term for up to two five-year periods.

**2.5. TITLE TO FRANCHISE MATERIALS.** It is expressly understood that all Franchise Materials collected under this Franchise shall remain the property of the resident or commercial Owner until such time as they are collected for Disposal, Transport or Recycling. That ownership shall transfer to Company once the Franchise Materials are collected. The Company is hereby granted the right to retain, dispose of, and otherwise use such Franchise Materials, or any part thereof, in any fashion or for any lawful purpose desired by the Company, and to retain any benefit or profit resulting therefrom.

**2.6. ANTI-SCAVENGING ENFORCEMENT; UNAUTHORIZED COMPACTION.** The City will cooperate with the Company in the Company's enforcement of the exclusive rights granted to the Company in this Agreement and anti-scavenging laws, including without limitation the institution of civil actions against a person or entity alleged to have violated the exclusive rights created in Section 2.1 of this Agreement or

the anti-scavenging provisions of PRC Section 41950 (which provides for treble damages, as measured by the value of the material removed, or a civil penalty of not more than \$2,000.00, whichever is greater, for each unauthorized removal, in accordance with PRC Section 41953). If City is required to take administrative, law enforcement, or other legal action against any person who infringes on the Company's exclusive rights, the Company shall reimburse the City for all reasonable costs, staff time and legal costs related to any such action. Nothing herein precludes the Company from taking such legal action against third parties as it deems appropriate to protect the exclusive nature of its franchise.

Customers shall not permit Franchise Materials to be compacted in Company-provided Bins or Debris Boxes, unless such compaction is provided by Company under this Agreement.

### **3. FRANCHISE FEE.**

**3.1. CITY FRANCHISE FEE.** As of the Effective Date of this Agreement, five percent (5%) of all revenues collected by the Company resulting from all revenue or compensation to the Company from Service Rates established pursuant to Article 6 for Collection of Solid Waste, including for operation of the Ord Ranch Road Transfer Station service and without subtracting the other cost of doing business, on or after the Effective Date of this Agreement within the Service Area, but excluding revenue for services provided by the Company prior to the Effective Date and from services other than Collection Services, non-exclusive or excepted services, exempt materials, or sales of recycled materials (collectively, "Gross Revenues"), shall be paid by the Company to the City as a Franchise Fee. If the Franchise Fee is increased after the date of this Agreement, the Service Rates shall be adjusted in the same manner as adjustments for increases in Disposal Fees as provided in Section 6.4. The Franchise Fee shall be computed and paid on the basis of the Company's cash receipts from Gross Revenues after the Effective Date of this Agreement. Company shall make payments to City on a quarterly basis within 30 days following the completion of each calendar quarter. The Company shall remit the Franchise Fee as part of the quarterly remittance.

**3.2. UNDER AND OVER PAYMENTS.** If the Company fails to pay the entire amount of compensation due the City through error or otherwise, the difference due the City shall be paid by the Company within thirty (30) days from discovery of the error or determination of the correct amount. Any overpayment to the City through error or otherwise shall be offset against the next payment due from the Company.

**3.3. FINANCIAL REVIEW.** The relevant books and records of the Company shall be subject to review and inspection for the purpose of reviewing billing operations, accounts receivable and customer service, by either party, its auditors or other agents, at any reasonable time upon reasonable notice.

### **4. SERVICES OF COMPANY.**

4.1. **SB 1383.** City has received a low-population waiver from CalRecycle pursuant to 14 CCR Section 18984,12(a) and, unless expressly provided in this Agreement, Company is not providing services required by SB 1383 Regulations.

4.2. **SERVICES PROVIDED BY COMPANY.** The Company shall, in accordance with the terms of this Agreement, Applicable Law and best industry practices, provide all labor, materials, facilities, services and equipment necessary to Collect, Process, Recycle or Dispose of (as appropriate), market and transport all set out Franchise Materials. Services not within the scope of this Agreement will be provided upon terms and pricing determined by Company.

#### 4.3. SOLID WASTE COLLECTION.

4.3.1. Bin Service. Company shall furnish or provide Carts to all Residences and Bins or Carts for collection use, as appropriate, to all Multiple-Family Dwellings that receive Bin service and Commercial Premises that generate Solid Waste within City. The size of the Bins and the frequency of their collection (which shall not be less than once a week) shall be determined between the Customer and Company. Bins shall be placed on hard surface locations which are accessible to Company and consistent with applicable municipal code and development approvals. Bins supplied by Company shall, at all times, be maintained by Company in a well-kept appearance. Front load bins must be maintained with lids. Customers shall be responsible for sanitation and deodorizing of such Bins; provided, however, Company shall provide in its Bin rental contracts for a Bin cleaning service to be performed at the request of the Customer for a fee specified in such contract. The initial delivery of such Bins and Carts shall occur as provided in accordance with the implementation schedule agreed upon by the Parties.

4.3.2. Curbside Single-Family Residence. Company shall, once per week, collect the Solid Waste that has been placed, kept or accumulated in a Cart (other than a Bin) at Single-Family Residences within the Service Area and placed at curbside or roadside prior to Company's normal weekly collection time, provided that in no event shall Company be required to collect any additional Solid Waste placed at curbside which is not placed in the Cart. The standard service level for a Single-Family Residence shall be a 64-gallon Cart. The Company may also collect Solid Waste at Single-Family Residences within the Service Area at additional times or in excess volumes for an additional fee as agreed upon in separate contracts between Company and each customer requesting such service.

4.3.3. City Facilities' Collection. The Company shall collect, transport and dispose of all Solid Waste generated at public facilities identified in Exhibit 3 according to the specified service levels and collection frequency. The Company shall make collections from containers Monday through Friday or on Saturdays following non-working holidays. Collections from bins and debris boxes shall be scheduled at a time mutually agreed upon by the Company and City. The Company shall provide, at City's direction, additional Solid Waste services entailing:

4.3.3.1. Collection of Solid Waste, Recyclable Materials and Green Waste from City facilities and parks;

4.3.3.2. Provision of debris box service as directed by City; and,

4.3.3.3. Review of plans for land use or property developments with regard to Solid Waste service issues.

At the option of the City, exercised in writing, these additional services may be provided at no charge to the City but shall be reimbursed to the Company through the Service Rates charged other service recipients.

4.3.4. Permanent Containers/Debris Box Service. Company shall provide permanent /debris box Containers for the purpose of Collection of Solid Waste. Company shall deliver to and Collect debris boxes from the location identified by the service recipient. Containers shall be free of graffiti and in good repair. Containers must be clearly marked and identifiable as belonging to Company. Special consideration shall be given when determining the pick-up area for temporary Containers to ensure that the flow of traffic is not impeded and that it does not result in aesthetic degradation of an area. The designated pick up area, if disputed by service recipient or Company, shall be determined by City. Additionally, if in City's opinion the location of an existing pick-up area is inappropriate, City may require the service recipient or Company to relocate the pick-up area.

4.3.5. Roll-Off Boxes. The Company will provide 10 roll-off box hauls to the City at no additional charge for the purpose of code enforcement and blight abatement within the City. The Company will deliver the boxes within the City as requested by the City. The Company will provide information for code enforcement to discourage the placement of hazardous materials in these abatement boxes; City will be responsible for any hazardous materials placed in the abatement boxes. Should the City decide not to implement this program, it may use the 10 roll-off box hauls for other clean-up programs or for the City's use.

4.3.6. Hours of Collection. Collection Service of all Bins and Carts shall not start before 5:00 a.m. for commercial and 6:00 a.m. for residential or continue after 6:00 p.m., subject to change by action of the City Council.

4.3.7. Multiple-Family Dwellings. Multiple-Family Dwellings shall be provided with Solid Waste Service as frequently as negotiated with the Customer but in no event less than once per week, to collect the Solid Waste that has been placed, kept or accumulated in Bins; an exception is where the facility self-hauls and provides proof to the City that all waste materials are being properly disposed or diverted according to applicable law. Waste Management will work with each complex to customize the appropriate level of service. Multiple-Family Dwellings will have the option to

select the appropriate cart size or 2, 3, 4, and 6-cubic yard bins for Solid Waste collection. The 6-cubic yard bins will not have wheels.

4.3.8. Commercial Customers. Commercial Customers shall be provided with Solid Waste Service as frequently as negotiated with the Commercial Customer but in no event less than once per week, to collect the Solid Waste that has been placed, kept or accumulated in Bins; an exception is where the facility self-hauls and provides proof to the City that all waste materials are being properly disposed or diverted according to applicable law. Waste Management will work with each Commercial Customer to customize the appropriate level of service. Commercial Customers will have the option to select the appropriate cart size or 2, 3, 4, and 6-cubic yard bins for Solid Waste collection. The 6-cubic yard bins will not have wheels.

4.3.9. Cart Replacement. The Company, without expense to the City or Customer, and within seventy-two hours after notice, shall replace Solid Waste Carts that are lost, stolen or damaged, unless due to customer neglect such as putting hot ashes in the Cart in which case the Company may charge the Customer for the retail costs of the replacement Cart. In addition, the Company will replace Solid Waste Carts damaged due to normal wear and tear and provide free replacements for graffiti on Solid Waste Carts without charge within 14 days of the Customer's or City's request. Customers will be able to make a change in Cart size or number of Carts once every twelve months at no additional replacement cost. The Company, without expense to the City or the Customer, and within five working days after notice, shall provide a Solid Waste Cart to a new Residential Customer that has no such Cart or to a new Multi-Family Customer who elects Cart service. The Company shall own and maintain all Solid Waste Carts at its expense, except as provided in this paragraph.

4.3.10. Clean-Up Event. The Company shall hold one clean-up event per year for the collection of Solid Waste, which shall be open to Residential Customers of the Company in the Service Area (one load per Customer). The actual date and time will be set by the Company in coordination with the City at least ninety (90) days in advance. The Company shall reasonably inform Residential Customers within the Service Area, at least two weeks in advance of the clean-up event, of the date, time, location and other information pertinent to the clean-up event.

4.3.11. Senior Residential Service. Senior citizens may receive a 35-gallon Solid Waste Cart at the Service Rate provided in Exhibit 2. In order to qualify for the reduced senior Service Rate all inhabitants at the property, shown by driver's license or other identification acceptable to Company, must be sixty-five (65) years of age and older.

#### **4.4. RECYCLING.**

4.4.1. Residential Recycling. The Company shall, once every other week, Collect, Process, Recycle, and Transport all Recyclables from all Residential Customers. Recycling Carts shall be collected using an automated collection system. The

Company will only provide Recycling services to Residential Customers that receive and pay for Solid Waste services.

4.4.2. Residential Recycling Carts Provided. Company shall provide Residential Customers with Recycling Carts and promotional information within fourteen (14) days of notice of, or request for, Solid Waste service. Customers may co-mingle all Recyclables listed on Exhibit 1 in the Recycling Cart. The Company shall provide and distribute to each Residential Customer one (1) Recycling Cart, but, upon request of the Customer and as needed, will provide no more than one additional Recycling Cart at no additional charge. The standard service level for a Single-Family Residence shall be a 64-gallon Recycling Cart.

4.4.3. Residential Recycling Carts Replaced. The Company, without expense to the City or the Customer, and within seventy-two hours after notice, shall provide free replacements of Recycling Carts that are lost, stolen or damaged, unless due to customer neglect such as putting hot ashes in the Cart in which case the Company may charge the Customer for the retail costs of the replacement Cart. In addition, the Company will replace Recycling Carts damaged due to normal wear and tear and provide free replacements for graffiti on Recycling Carts without charge. The Company, without expense to the City or Customer, and within five working days after notice from the City or the Customer, shall provide a Recycling Cart to a new Residential Customer that has no such Recycling Cart. The Company shall own and maintain all Recycling Carts at its expense.

4.4.4. Commercial and Multiple-Family Dwelling Recycling. The Company shall Collect, Process, and Transport all Recyclables from all Commercial and Multiple-Family Dwelling Premises, unless it has received a self-haul exemption. The Company shall notify City of locations where Recycling services are not selected by customer or not possible to provide. Multiple-Family Dwellings will have the option at varying Service Rates to select the appropriate cart size or 2, 3, 4, and 6-cubic yard bins for Recycling collection. The 6-cubic yard bins will not have wheels.

4.4.5. Commercial Recycling Carts Provided. The Company shall provide recycling Carts to each Commercial Premises, except those that properly self-haul. Recycling Carts shall be provided within fifteen (15) working days of sign-up and Owner's, Customer's or property manager's permission and provision of a proper site. Recycling Carts shall be sited in accordance with all policies and regulations of the City.

4.4.6. Collection Days and Times. To the maximum extent possible, Collection of Recyclables from all Residential Customers shall be made bi-weekly and will be scheduled on the same day as Solid Waste collection. Collection from Commercial Premises shall be made on a regular schedule as negotiated between the Commercial Business and the Company.

4.4.7. Construction and Demolition. The Company shall encourage builders and demolition companies to source separate their C&D for future recycling. Prior to disposal, Company shall have the right to salvage C&D collected pursuant to this Agreement and to retain funds derived therefrom.

4.4.8. Materials to be Recycled. Company shall collect and Recycle all of the materials listed in Exhibit 1.

#### **4.5. GREEN WASTE.**

4.5.1. Green Waste Program. Residential Customers and Commercial Customers will participate in a Green Waste Program.

4.5.2. Green Waste Collection. The Company shall, once every other week, Collect and Transport Green Waste set out in Carts. Green Waste Carts shall be collected using an automated collection system. The standard service level for a Single-Family Residence shall be a 96-gallon Cart. Company will provide one additional Green Waste Cart upon the request of the Customer, and service such Cart at no extra cost.

4.5.3. Cart Replacement. The Company, without expense to the City or Customer, and within seventy-two hours after notice, shall provide free replacements of Green Waste Carts that are lost, stolen or damaged, unless due to customer neglect such as putting hot ashes in the Cart in which case the Company may charge the Customer for the retail costs of the replacement Cart. In addition, the Company will replace Green Waste Carts damaged due to normal wear and tear and provide free replacements for graffiti on Green Waste Carts without charge to the City or Customer within 14 days of request by the City or the Customer. Customers will be able to make a change in Green Waste Cart size or number of Carts once every six months at no additional replacement cost. The Company, without expense to the City or the Customer, and within five working days after notice, shall provide a Green Waste Cart to a new Residential Customer that has no Green Waste Cart. The Company shall own and maintain all Green Waste Carts at its expense, except as provided in this paragraph.

4.5.4. Additional Green Waste Carts. During leaf season (beginning October 1st of each year and ending November 30th of each year), the Company, at the request of a residential customer and at no additional cost to the customer, will provide three additional Green Waste Carts.

#### **4.6. OTHER COMPANY REQUIREMENTS.**

4.6.1. Company Provided Equipment and Vehicles. Company shall provide an adequate number of vehicles and equipment for the Collection, Disposal and Transportation services for which it is responsible under this Agreement. All vehicles used by Company under this Agreement shall be registered with the Department of Motor Vehicles of the State of California, shall be kept clean and in good repair, shall be,

uniformly painted and shall be washed at least once every seven (7) calendar days during good weather. Company's name, phone number and vehicle number shall be prominently displayed on its vehicles. Company shall furnish a listing of equipment utilized to perform all services included in this Agreement upon request by City.

4.6.1.1. The City and Company agree that Company's obligations and/or scope of services under this Agreement exclude any existing requirements regarding the future conversion of fleets, or any part thereof, to Zero-emissions (ZEV) or Near-zero-emissions (NZEV) vehicle(s) or the future acquisition, hiring or use of ZEVs or NZEVs under Applicable Law, including without limitation Sections 2015 et seq. of Title 13 of the California Code of Regulations. Should such existing Applicable Law apply to any Company's vehicles used in the provision of services under this Agreement during the Term, then the City and Company agree to meet and confer in good faith to amend this Agreement to incorporate provisions and obligations reasonably necessary to comply with such Applicable Law, and Company shall be entitled to a Service Rates adjustment in accordance with Section 6.5 for such change in Company's obligations and/or scope of services under this Agreement.

4.6.2. Collection on Holidays. If the day of Collection on any given route falls on Christmas Day, New Year's Day, Thanksgiving Day or a holiday observed by the Disposal Site to which the City's Franchise Materials are disposed, Company shall provide Collection Service for such route on the next workday following such holiday, thereby adjusting subsequent workdays that week.

4.6.3. Private Drives and Inaccessible Areas. For Residential Customers on Private Drives or other inaccessible areas, the Company shall Collect Solid Waste, Green Waste and Recyclables on the nearest Public Street or Private Road connecting to the Private Drive or other inaccessible area.

4.6.4. Employees. Company shall exercise reasonable care to hire responsible Employees, to supervise the work of such Employees, and to discipline and, if necessary and consistent with Company's legal and contractual obligations, discharge an Employee failing to meet reasonable standards for performance of work under this Agreement. Company shall comply with applicable state and federal law pertaining to employment including, but not limited to, applicable equal opportunity employment and affirmative action requirements.

4.6.5. Manner of Collection. The Company shall perform all Collection Services in a quiet and courteous manner and ensure that all Carts and Bins are placed on the premises from which they were removed in an upright position, with lids closed, and within five (5) feet of where they were originally placed before collection.

4.6.6. Service Schedule. In January of each calendar year, the Company shall provide all customers with calendars (which may be in "PDF" or other similar format) identifying the schedule for Solid Waste, Recyclables, and Green Waste Collection

for that calendar year. The calendar shall provide adequate detail for customers to identify specific service days for specific service areas. Hard copies of the calendars shall be made available to Customers upon request.

4.6.7. Code Revisions. The City shall use reasonable efforts to update the municipal code to be consistent with the terms of this Agreement and to reflect new program requirements if requested by the Company.

4.6.8. Service Complaints. All service complaints shall be directed to Company. Company shall record all complaints duly received and Company agrees to use its best efforts to resolve all such complaints within the two (2) business days next following the date on which such complaint is received.

4.6.8.1. Complaint. The Company agrees to maintain a written log of all oral and written service complaints registered with the Company from Customers, service recipients, or the public within Franchise area (“Complaint Log”). The Company shall be responsible for the prompt and courteous attention to, and prompt and reasonable resolution of, all complaints. Complaints that cannot be reasonably resolved may be appealed to the City Administrator or designee for final resolution. The Company shall record in the Complaint Log all written and oral complaints, noting the name and address of complainant, date and time of complaint, nature of complaint, and nature and date of resolution. Such log shall be kept so that representatives of the City, upon request, may conveniently inspect it.

4.6.8.2. Complaint Response. The Company shall respond to all complaints, other than missed pickups, within twenty-four (24) hours if the complaint is received during a weekday or by the next business day if the complaint is received on a Saturday, Sunday or a holiday.

4.6.8.3. Missed Pickups. In the event of a missed pickup, the Company shall complete the pickup the same day if the complaint is received by 12:00 p.m. or by 12:00 p.m. the following day if the complaint is received after 12:00 p.m.

4.6.8.4. Telephone. The Company shall maintain a toll-free telephone system during office hours (8:00 a.m. to 5:00 p.m.), which will have available service representatives sufficient to handle the volume of calls typically experienced by the Company. Customers must be able, with reasonable convenience, to reach the Company’s office by phone during office hours.

4.7. **CHANGE IN OPERATIONS, ADMINISTRATION OR SCHEDULE.** The Company shall notify the City in writing of any material changes in, or to the operation to provide Franchise Services (e.g. vehicle routes, equipment type, crew size), administration (e.g., management), and schedule five (5) days in advance of the time such material change is implemented. Any changes to the Company’s Collections operation shall meet the service requirements and performance standards and all other

terms of this Agreement. In the case of changes to the Collection schedule the Company must notify all affected Customers at least (14) days prior to any change in the Collection day. The Company shall not permit any Customer to go more than seven (7) days without Solid Waste Collection Service in connection with a Collection schedule change other than in the event of an Uncontrollable Circumstance.

**4.8. ADDITION OF NEW NON-FRANCHISE SERVICES.** Upon receiving a written request from the City, the Company shall provide any other exclusive or non-exclusive services not covered by this Franchise, and that it is qualified to provide, including, but not limited to, assistance to the City in the event of natural disasters, subject to establishment of appropriate and mutually agreed upon compensation for providing the service.

## **5. TRANSFER STATION OPERATION SERVICES.**

**5.1. TRANSFER STATION OPERATIONS.** The Company shall, with the consent of the County of Butte, operate the Ord Ranch Road Transfer Station (the “Transfer Station”) for the receipt of Franchise Materials collected by Company under this Agreement, as well as Self-Haul waste from residences and businesses of the City and surrounding areas of Butte County (including the area of the City and adjacent territory).

City shall have the right to enter and inspect the Transfer Station during normal operating hours.

Company shall have the right to utilize the Transfer Station for Solid Waste, Recyclable Materials, Green Waste, Construction and Demolition Debris collection and transfer purposes, and all of the property, buildings and appurtenances located at the Transfer Station.

City's responsibilities. City shall be responsible for ordinary maintenance of the Transfer Station and repairs thereto necessitated by normal wear and tear. City shall not be responsible for damages or extraordinary wear to its facilities caused by Company's active negligence or intentional misconduct. City shall construct, where necessary, fences, walls, paving or appurtenances as may be necessary for the collection, sorting and handling of Franchise Materials.

Company's responsibilities. Company shall be responsible for keeping the Transfer Station in a clean and workable condition at all times during the term of this agreement. Company shall not be responsible for any repairs to buildings, grounds and appurtenances on the premises during the term of this agreement, except to the extent the damage was caused by the Company's active negligence or intentional misconduct. Company shall be responsible for the payment of all utility charges and fees connected to the operation of the Transfer Station. Company shall provide, and have complete responsibility for all necessary personnel, vehicles, equipment and containers necessary for the collection and handling of Franchise Materials. Company shall be responsible for transferring all material received at the Transfer Station to ultimate disposal or

processing facilities. Company shall be required to ensure that unloaded materials are properly placed in the designated areas. For example, Company shall be required to deposit batteries and cell phones, used motor oil and used motor oil filters in the containers designated for storage of these materials.

- 5.1.1. Transfer Operations. Transfer operations to be performed by the Company include, but are not necessarily limited to: the screening of incoming loads for hazardous waste, or other unacceptable material at a level consistent with or greater than that required by the applicable regulations; receipt of acceptable Solid Waste; the transfer of Solid Waste from the designated tipping area to the Company provided (40) to sixty five (65) yard transfer containers; and transport of Solid Waste to the Disposal Site.
- 5.1.2. Residential Household Hazardous Waste Program. Company agrees to conduct a Residential Customer household hazardous waste program at the Transfer Station free of charge to City residents. As a part of this program, the Company shall conduct appropriate public awareness and education programs concerning the need to separately dispose of certain hazardous wastes used commonly for residential use. Company shall further institute a once a month collection of household hazardous waste at the Transfer Station, including a load check program at the landfill site. Materials to be accepted shall include, at a minimum, antifreeze, batteries, oil, paint and materials containing chlorofluorocarbon (CFC).
- 5.1.3. Transfer Station Voucher. City will provide each dwelling unit receiving residential services with one "Transfer Station Voucher" on a schedule and on a form to be approved by the Company. Each voucher will entitle a resident of that dwelling unit to dispose at no cost of up to two (2) cubic yards of refuse at the Transfer Station during the term of this Agreement. To be valid, the voucher must be presented upon entrance to the transfer station. Notwithstanding the foregoing, the voucher shall not permit the disposal of commercial waste or any materials that under current or future statute, ordinance or regulation require the application of special treatment, handling, or disposal practices beyond those normally required for solid waste, including without limitation dirt, concrete, tires, liquids, toxic or hazardous materials, cathode ray tubes (CRT), materials containing CFC's, and large or heavy metal objects such as auto bodies, engines, transmissions, refrigerators, and air-conditioners; provided, however, that Company may, in its discretion, accept such waste and materials for an additional charge to be determined by Company.
- 5.1.4. Senior Bulky Waste Collection. Upon request by the City, the Company will provide at no additional charge curbside collection of Bulky Waste for Residential Customers who request such service, are over 65 years of age and do not have a vehicle to use the voucher at the transfer station; provided that the Company's obligation shall be limited to collecting Bulky Waste consisting of no more than four cubic yards in aggregate per household per year. The Company's obligations shall be limited to the first 25 qualifying individuals requesting service during each

calendar year. Such services will be provided on a schedule mutually agreed upon by City and the Company. The Company may charge an additional charge of \$35 for special handling items, such as a refrigerator requiring refrigerant evacuation. Should the City decide not to implement this program, the City may utilize the 25 four cubic yard cleanup bins for code enforcement, other clean-up programs or for the City's use. For purposes of this paragraph "Bulky Waste" excludes Hazardous Waste, items larger than four cubic yards and items of excessive size or density, such as engine blocks, spas, boats and trailers.

5.1.5. Drop-Off Recycling Center. As part of the Transfer Station Operation Services the Company agrees to provide and maintain a drop-off recycling center at the Ord Ranch Road Transfer Station. Materials to be accepted are to include, but are not necessarily limited to: aluminum cans, glass bottles and jars, e-waste, metal cans and narrow neck plastic containers (plastic 1 & 2), and newspaper, mixed paper (including but not limited to magazines, junk mail, brown paper bags, and white and colored paper), and corrugated cardboard.

## **5.2. MATERIALS TO BE TRANSFERRED AND DISPOSED OF AT THE TRANSFER STATION.**

5.2.1. The Company shall accept and transfer all self-hauled Solid Waste within the jurisdiction of the City and in the Gridley-Biggs County areas and delivered to the Transfer Station.

5.2.2. Company shall have sufficient bins on hand such that no one be turned away who presents acceptable Solid Waste during the hours the Transfer Station is open. Delivery of Solid Waste, Recyclable Materials, Green Waste or any other materials to the Transfer Station by a commercial hauler or collector other than Company is not permitted without the written authorization of the City.

5.3. **DAYS AND HOURS OF OPERATION.** The Transfer Station will be open to the public, at a minimum, every Saturday and Sunday, unless Saturday or Sunday falls on a recognized holiday, between the hours of 9:00 a.m. and 5:00 p.m. Company may remain open additional days and additional hours if the volume of Solid Waste is such that additional time is warranted. In the event that Company does desire to operate on additional days, Company shall give the City thirty (30) days' notice of its intention to do so.

5.4. **CITY USE OF TRANSFER STATION.** The City reserves the right to enter the Ord Ranch Road Transfer Station at any time, including non-operating hours, for its own use for the purpose of dumping street sweepings and refuse. There shall be no charge to the City for this material.

## **5.5. COMPANY AND OTHER COMMERCIAL HAULER USE OF TRANSFER STATION.**

5.5.1. Company Use of Transfer Station. The Company shall have the right to use the Ord Ranch Road Transfer Station for the transfer of Solid Waste, Recyclable Materials and Green Waste. Should the Company not be able to use the Ord Ranch Road Transfer Station for this intended purpose due to regulatory prohibitions or inability to effectively operate the transfer station as proposed due to lack of effective due diligence or other factors within its control, it shall make alternative arrangements for handling of this material at no additional cost to the City; if Company is not able to use the Transfer Station for reasons beyond its reasonable control, and alternate facilities are used at an increased cost to Company, then Company shall be entitled to additional compensation (Section 6.4). Company shall notify the City in writing of any proposed material changes to the use of the Ord Ranch Road Transfer Station. Approval of any such proposed changes shall be entirely at the discretion of the City, and shall be provided to the Company in writing.

5.5.2. Commercial Hauler Delivery to Transfer Station. The City and Company may agree in writing to authorize other commercial haulers to deliver Solid Waste, Recyclable Materials or Green Waste to the Ord Ranch Road Transfer Station.

5.6. **APPLICATION AND PERMIT.** Attached hereto and made a part hereof is a copy of the Solid Waste Facilities Permit for the Ord Ranch Road Transfer Station (Attachment A). The requirements and the provisions of said Permit are incorporated herein and made a part of this Agreement, and Company agrees to abide in all respects by the requirements of said Permit.

5.7. **AGREEMENT WITH COUNTY.** Attached hereto (Attachment B) and made a part hereof is a copy of the “Agreement Between the County of Butte and the City of Gridley for the City’s Use of Certain Premises” (City/County Transfer Station Agreement). The requirements and the provisions of said City/County Transfer Station Agreement are incorporated herein and made a part of this Agreement, and Company agrees to abide in all respects by the requirements of said City/County Transfer Station Agreement. The City shall make a good faith effort to extend the term of the City/County Transfer Station Agreement for an additional period ending no earlier than eight years following the end of the Initial Term. Should the County decline to extend or renew the Transfer Station Agreement, the City and Company will meet to determine impacts and options.

5.8. **INSPECTIONS.** To ensure that the regulations and laws for the operation of the Ord Ranch Road Transfer Station are met, the site and operation may be inspected during the term of this Agreement by a representative of the City, State or other authorized agency to assure compliance.

## 6. SERVICE RATES.

6.1. **AMOUNT OF SERVICE RATES.** As of the Effective Date of this Agreement, Company may not charge Service Rates in excess of those set forth in Exhibit “2.” The Company may establish charges for Special Services that are not specified in Exhibit 2.

**6.2. CPI ADJUSTMENT.** The Service Rates set forth in Exhibit 2 shall be adjusted on January 1st of each year, beginning January 1, 2025 and annually thereafter to reflect one-hundred percent (100%) of the annual change in the Consumer Price Index, series CUUR0000SEHG CPI-U Water and Sewer and Trash Collection Services, US City Average, not seasonally adjusted, as published by the United States Department of Labor, Bureau of Labor Statistics (CPI). This annual adjustment to the rates will be based on 100-percent of the annual percentage change in the CPI for September of the current year as compared to September of the prior year (CPI 100% Rate Adjustment Factor). Annual CPI adjustments shall have a 2% floor and 5% cap. If an annual CPI adjustment would otherwise be lower than 2% or above 5%, such difference will be applied to the following year's CPI adjustment. For example, if a CPI adjustment would be 6% if not for the cap, the adjustment shall be 5%, and 1% shall be added to the following year's CPI adjustment. The Company shall submit a formal Request for Service Rates Adjustment to the City on an annual basis no later than November 1st of the current year.

### **6.3. FUEL COST ADJUSTMENT.**

**6.3.1. Entitlement to Fuel Cost Adjustment.** The Service Rates set by this Agreement are calculated to pay certain expenses and costs that are of a contingent and uncertain nature. Therefore, in addition to the CPI Adjustment and other rate adjustments provided by this Article 6, the Service Rates shall be further adjusted for changes in fuel costs associated with performance of the services hereunder in the manner provided below.

**6.3.2. Procedural Requirements.** The Fuel Cost Adjustment shall be made annually concurrently with and using the same time frames as the adjustment for changes in the Consumer Price Index as contemplated by Section 6.2.

**6.3.3. Formula for Fuel Cost Adjustments.** The Fuel Cost Adjustment shall be calculated by the following formula:

$$(1 + [(Fuel Cost Change - CPI Change) \times Fuel Percentage]) \times Old Rate = New Rate$$

The terms used in the preceding formula shall have the following meanings:

“Fuel Cost Change” means, for No. 2 diesel fuel, the average price for California No. 2 diesel fuel for the most recently completed calendar year divided by such average price for the calendar year preceding the most recent calendar year. The price used to compute the Fuel Cost Change shall be the price reported by the United States Department of Energy, Energy Information Administration. In the event that price is no longer reported, the parties will designate a new methodology for determining the price based on comparable data. For fuels other than No. 2 diesel, the Company shall calculate the change in fuel cost using the same time periods and a reasonably comparable fuel price index.

“CPI Change” means the average CPI index for the U.S. City Average, All Items, 1982-84 = 100, for All Urban Consumers, for the most recently completed calendar year divided by such average price for the calendar year preceding the most recent calendar year.

“Fuel Percentage” means the Company’s total cost for diesel fuel (or such other fuel as is employed by Company) incurred during the most recent calendar year divided by Company’s total operating revenue for such calendar year, in both cases calculated for Company’s operations district that includes the City.

“Old Rate” means each of the rates for services as they may have been previously adjusted or amended.

“New Rate” means the new rate calculated pursuant to the preceding formula that will replace the Old Rate.

6.3.4. Fuel Cost Floor. This rate adjustment for fuel costs shall be in addition to, and not in lieu of, any other rate increase to which Company may be entitled under this Agreement. Under no circumstances may an adjustment for fuel costs reduce a rate below the initial rates as of the Effective Date, as increased thereafter pursuant to this Article 6 or other provisions of this Agreement. Adjustments for fuel costs shall only be made to increase or reduce (but not below zero) prior adjustments for fuel costs.

6.4. **REDIRECTION OF FRANCHISE MATERIALS.** In the event that the Company redirects Solid Waste, Recyclable Materials and/or Green Waste to a facility other than the Ord Ranch Road Transfer Station and such changes result in a material increase or decrease in costs and/or increase or decrease in revenues to the Company, the Company and the City shall have the right to receive an adjustment in the Service Rates sufficient to offset in full such increase or decrease, and in no event shall the Company be required to implement any redirection until such time as adjustments in the Service Rates rates have been made in order to compensate the Company for such increase in costs and/or decrease in revenues.

6.5. **EXTRAORDINARY SERVICE RATE REVIEW REQUEST.** In addition to the annual adjustment provided by Sections 6.2, 6.3 and 6.4 above, the Service Rates shall, upon written request of Company, be further adjusted to fully capture increased expenses and lost revenue associated with performance of the services hereunder due to any one or more of the following causes:

- 6.5.1. Uncontrollable Circumstance;
- 6.5.2. Changes in Applicable Law that is effective after the Effective Date of this Agreement;

- 6.5.3. Increase in surcharges, fees, assessments or taxes levied by federal, state or local regulatory authorities or other governmental entities related to the Franchise Services;
- 6.5.4. Processing facility and disposal facility/landfill tip fees that are not regulated by the Company or an affiliate of the Company.
- 6.5.5. Any other extraordinary circumstances or causes or reasons that are not within the reasonable control of Company.

If Company requests a Service Rates adjustment pursuant to this Section 6.5, it shall prepare a Service Rates adjustment request setting forth its calculations of the increased costs/lost revenue and accompanying adjustment to the Service Rates necessary to offset such increased costs/lost revenue. The City may request documentation and data reasonably necessary to evaluate such request by Company, and may retain, at its own expense, an independent third party to audit and review such documentation and request. If such third party is retained, the City shall take reasonable steps, consistent with Applicable Law, to protect the confidential or proprietary nature of any data or information supplied by Company. The City shall approve all properly calculated Service Rates adjustments within ninety (90) days of Company's request, and the adjusted Service Rates shall be deemed to take effect as of the date of Company's request. In addition, if the request is based upon any new or increased third party fees, taxes, assessments or charges, the City shall approve the Service Rates adjustment within such time period as necessary to ensure that such fees, taxes, assessments or charges are passed on to Service Recipients by the date the same are effective.

**6.6. BILLING AND COLLECTION OF ACCOUNTS.** Company shall bill Customers for all Collection Services (including Disposal) for Franchise Materials as part of a single all-inclusive Service Rate. Such billings may cover the periods and be collected by the methods hereinafter set forth.

6.6.1. Residential. Single-Family Residence and Multiple-Family Dwellings Customers may be billed for up to three (3) months in advance or based on arrears/advanced billing combinations implemented at the discretion of the Company. Payment shall be due within 30-days of the billing date. If not paid when due, the bill may thereafter bear a late charge of 1.5% per month which shall be collectible along with the charge for service. If the bill is not within 90-days of billing, and after notice of delinquency has been sent to the Customer by Company, the Company may discontinue service and may continue charge interest not to exceed 1.5% per month, for such time as the bill remains unpaid after the due date.

6.6.2. Non-Residential. All non-residential Customers shall be billed monthly in advance, except for roll-off services, which may be billed in arrears. Payment with respect to each such bill shall be due on or before the 30th day following the end of the service period for which the bill is rendered; thereafter the bill shall be considered delinquent, and the Company may discontinue service and may charge interest, not to exceed 1.5% per month, for such time as the bill remains unpaid after the due date.

6.6.3. Special Assessment Procedure. During each quarterly billing period, Company shall determine which Customers (SFD, MFD and Commercial) are ninety (90) days or more delinquent in payment of their bill. Company shall prepare and mail a bill to each such Customer indicating that the Customer has incurred a bill that is ninety (90) days delinquent. Company shall also mail a notice to each affected property Owner, if not the Customer, advising the Owner that the Customer's tenant has incurred a bill that is ninety (90) days delinquent, including tenants who have cancelled their service. Company agrees that it will use the most current data of property Owners compiled by the County Tax Assessor's Office when mailing such notices.

Company will mail three (3) notices to delinquent Customers and each affected property Owner. Such notices shall be mailed in February, March and April, with a payment due date of June 1st. Company shall provide the City a list of the delinquent accounts that have not paid. A bill must be past due at least one hundred twenty (120) days and the Company shall exercise reasonable efforts as described in this Section to achieve collection of the bill prior to passing it on to the City for placement on the tax rolls. City shall reimburse Company for delinquent payments that are placed on the tax roll upon collection of those payments from the property Owner and within thirty (30) days of receipt by the City.

6.6.4. Special Services. Company shall also receive fees for performance of special services as agreed upon in separate contracts between Company and each Customer requesting such special service. Company shall provide the City with notice of such special services and the fees charged.

## **6.7. CONTAMINATION AND OVERAGE.**

6.7.1. Definitions:

6.7.1.1. Contamination: Materials placed in a Recyclable Materials container other than Recyclable Materials, or material placed in a Green Waste container other than Green Waste.

6.7.1.2. Overage: (i) Solid Waste, Recyclable Materials or Green Waste exceeding its container's intended capacity such that the lid is lifted (or would be lifted if lowered) or (ii) Solid Waste, Recyclable Materials or Green Waste placed on top of or in the immediate vicinity of the container, in bags or otherwise.

6.7.1.3. Violation Notice: An electronic notice to the customer (if such contact information is provided by customer) with the following information: (a) Date of the offense; (b) description of the offense; (c) if available, a photograph or video (or link to photograph or video); (d) description of the materials that are appropriate for collection in said container and a link to view online with

educational materials; and (e) website to obtain additional information and/or receive responses to questions the customer may have.

6.7.2. The following shall apply regarding occurrences of Contamination and Overage:

6.7.2.1. Contamination.

6.7.2.1.1. First and Second Occurrences. Company shall service containers with Contamination except where there is visible Excluded Waste. Company shall provide a Violation Notice, where such contact information has been provided.

6.7.2.1.2. Third and Subsequent Occurrences. Company may opt to not collect Recyclable Materials or Green Waste containers with Contamination; in such event, the customer may request the container be collected as Solid Waste, and an additional fee will apply. Alternatively, Company may collect a container with Contamination and invoice the customer a Contamination Charge in the amount set forth in Exhibit A. In either case, the Company shall provide a Violation Notice where such electronic contact information has been provided.

6.7.2.2. Overage. Company may opt to not collect Overage, unless caused by Company spillage of non-overloaded containers during collection; in such event, the customer may correct the Overage and request that Company return to service the container (an additional fee will apply). Alternatively, Company may collect the container with Overage and invoice the customer an Overage Charge in the amount set forth in Exhibit A. In either case, the Company shall provide a Violation Notice where such electronic contact information has been provided. If there have been more than three instances of Overage in any 12-month period for a particular service (i.e., Solid Waste, Recyclable Materials, or Green Waste), Company may increase the customer's service level (i.e., larger container or more frequent service) to mitigate the Overage, and may increase the charges to such Customer according to the increased service level.

6.7.2.3. Overweight Containers. The Company may refuse to collect any Solid Waste, Recyclable Materials, or Green Waste Container which the Company reasonably believes to be overweight. A container shall be considered "overweight" if the total weight of the container and contents exceeds two times the volume capacity of said container (e.g., 192 pounds for a 96-gallon Cart). The Company shall provide notification to the customer regarding each instance of non-collection.

7. **REPORTS.** The Company will provide the City with reports that contain the information required by the City for compliance with AB 939 and for the City to measure the Company's performance of items in this Agreement, but limited to information directly attributable to the

Collection Services provided under this Agreement. The frequency and content of the reports shall be determined by agreement of the City and the Company.

## **8. INDEMNITY, INSURANCE.**

### **8.1. INDEMNIFICATION OF THE CITY.**

8.1.1. General Indemnity. The Company agrees to and shall indemnify, defend, with counsel acceptable to the City, and hold harmless City, its officers, officials, employees, volunteers, agents and assigns from and against any and all damages (whether special, general or punitive), loss, liability, fines, penalties, forfeitures, claims, demands, actions, proceedings or suits (whether administrative or judicial), in law or in equity, of every kind and description, ( including, but not limited to, injury to and death of any person and damage to property, strict liability, product liability, or for contribution or indemnity claimed by third parties) arising or resulting from or in any way connected with: (i) the operation of the Company, its agents, employees, affiliates and subcontractors, in performing or failing to perform this Agreement; (ii) the failure of the Company, its agents, employees, affiliates and subcontractors to comply in all respects with the provisions of this Agreement, Applicable Laws; (iii) the acts of Company, its officers, employees, agents, affiliates and subcontractors in performing services under this Agreement (whether or not third parties may also be contributorily negligent); (iv) the acts of the Company, its officers, employees, agents, affiliates and/or subcontractors in performing services under this Agreement for which strict liability is imposed by law (including without limitation strict liability under environmental laws), subject to the Company's right of contribution, if any, against the City; and (v) the processing, marketing, and end use of Recyclable Materials and Green Waste. The foregoing indemnity shall only apply to the extent such loss, liability, penalty, forfeiture, claim, demand, action, proceeding, suit, injury, death or damage is not caused by the negligence or willful misconduct of the City, its officers, employees, agents or volunteers.

8.2. **INSURANCE SCOPE AND LIMITS.** The Company shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Company, his agents, representatives, employees or subcommands. With respect to General Liability and Pollution and/or Environmental Impairment Liability coverage shall be maintained for a minimum of five (5) years after contract completion, which continuing coverage may be maintained through continuous policy renewals. The maintenance of claims made against any insurance required of the Company shall not be considered a waiver by City of any claim or liabilities it may have against the Company.

8.2.1. Minimum Limits of Insurance. The Company shall maintain insurance coverage of the following type and with limits no less than:

- 8.2.1.1. General Liability: \$5,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage.
- 8.2.1.2. Automobile Liability: \$5,000,000 combined single limit per accident for bodily injury and property damage.
- 8.2.1.3. Worker's Compensation and Employer's Liability: \$3,000,000 each accident, \$1,000,000 policy limit bodily injury or disease, \$3,000,000 each employee bodily injury by disease.
- 8.2.1.4. Pollution and/or Environmental Impairment Liability: \$5,000,000 each occurrence/\$10,000,000 policy aggregate covering liability arising from the release of waste materials and/or irritants, contaminants or pollutants.

8.2.2. Deductible and Self-Insured Retentions. The deductibles or self-insured retentions for the General Liability and Auto Liability policies are for the account of the Company and shall be the sole responsibility of the Company.

8.2.3. Other Insurance Provisions. The policies are to contain, or be endorsed to contain, the following provisions:

- 8.2.3.1. Automobile liability and general liability: The City, its officers, officials, employees and volunteers are to be covered as additional insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the Company; and with respect to liability arising out of work or operations performed by or on behalf of the Company including materials, parts or equipment furnished in connection with such work or operations.
- 8.2.3.2. Worker's Compensation and Employers Liability Coverage. The Insurance company shall agree to waive all rights of subrogation against the City, its officers, officials, employees and volunteers for losses arising from work performed by the Grantee for the City.
- 8.2.3.3. All Coverages. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be canceled by either party except after thirty (30) days prior written notice has been given to the City.
- 8.2.3.4. Verification of Coverage. The Company shall furnish the City with certificates of insurance and endorsements effecting coverage required by this clause or certificates evidencing such coverage. The endorsements or certificates are to be signed by a person authorized by that Insurance Company to bind coverage on its behalf.

8.3. **REVOCATION OF PREVIOUS AGREEMENTS.** This Agreement, rather than any preceding agreements between the City and Company, shall govern with respect to the Company and City' rights, duties and obligations relating to this Franchise. Upon execution of this Agreement, all previous Agreements shall terminate and be of no further force and effect except with respect to covenants therein for acts and omissions occurring prior to the date of termination.

**8.4. COMPLIANCE WITH APPLICABLE LAW AND MUNICIPAL CODE.** Company agrees that it will comply with all Applicable Law and those provisions of the Gridley Municipal Code which are applicable to the work or business in which it is herein franchised, and with any and all amendments to such applicable provisions during the term hereof, but only to the extent they are not inconsistent with or do not conflict with the terms and conditions of this Agreement without regard to this Section.

## **9. DEFAULT; DISPUTE RESOLUTION.**

**9.1. EVENTS OF DEFAULT.** Each of the following shall constitute an event of default (“Event of Default”) hereunder, in each case subject to any applicable cure rights, including without limitation the cure rights provided in Section 9.2:

9.1.1. Failure to correct breach. Failure to correct any breach of this Agreement within the applicable cure period (as defined below).

9.1.2. Company bankruptcy. The Company files a voluntary petition for debt relief under any applicable bankruptcy, insolvency, debtor relief, or other similar law now or hereafter in effect, or consents to the appointment of or taking of possession by a receiver, liquidator, assignee (other than as a part of a transfer of equipment no longer useful to the company or necessary for this Agreement), trustee (other than as security for an obligation under a deed of trust), custodian, sequestrator (or similar official) of the company for a part of the Company’s operating assets or any substantial part of the Company’s property, or shall make any general assignment for the benefit of the Company’s creditors, or shall fail generally to pay the Company’s debts as they become due.

9.1.3. Court order or decree. Any court having jurisdiction shall enter a decree or order for relief in respect of the Company, in any involuntary case brought under any bankruptcy, insolvency, debtor relief, or similar law now or hereafter in effect, or the Company shall consent to or shall fail to oppose any such proceeding, or any such court shall enter a decree or order appointing a receiver, liquidator, assignee, custodian, trustee, sequestrator (or similar official) of the Company or for any part of the Company’s operating equipment or assets, or order the winding up or liquidation of the affairs of the Company.

**9.2. CURE RIGHTS.** Notwithstanding any other provision of the Agreement to the contrary, the City shall provide the Company with reasonable notice of and a reasonable opportunity to cure any breach of this Agreement during the time periods set forth below or such longer period as may otherwise be provided in the Agreement (the “Cure Period”). Any breach that is timely cured by the Company shall not be determined to constitute an event of default or give rise to the City’s right to terminate or suspend the Agreement or pursue its other remedies for breach. The Company shall begin cure of any breach or default as soon as it becomes aware of the breach or default, whether

discovered by the Company or through notice from the City. Upon becoming cognizant of the default, the Company shall proceed to cure such default as follows:

9.2.1. Immediately, if the default is such that in the determination of the City, the health, safety, or welfare of the public is endangered thereby; or

9.2.2. Within thirty (30) days of giving or receiving notice of default; provided that if the nature of the default is such that it will reasonably require more than thirty (30) days to cure, the Company shall have such additional time as is reasonably needed to expeditiously complete a cure. During any default cure period, the Company shall provide the City weekly written status of progress in curing such default.

9.3. **RIGHT TO TERMINATE UPON DEFAULT.** Upon an Event of Default by the Company, the City shall have the right to terminate this Agreement, subject to review as provided in Section 9.6.

9.4. **CUMULATIVE SPECIFIC PERFORMANCE.** The City's right to terminate the Agreement under Section 9.3 is not exclusive, and the City's termination of the Agreement shall not constitute an election of remedies. Instead, all remedies provided for in this Agreement shall be in addition to any and all other non-duplicative legal and equitable rights and remedies which the City may have under law or as otherwise provided in this Agreement.

#### 9.5. **EXCUSE FROM PERFORMANCE.**

9.5.1. Excuse from Performance. The Parties shall be excused from performing their respective obligations hereunder in the event they are prevented from so performing by Uncontrollable Circumstances beyond the control of and not the fault of the Party claiming excuse from performance hereunder. In the event of labor unrest, including but not limited to strike, work stoppage or slowdown, sickout, picketing, or other concerted job action, the Company shall not be required to adhere strictly to the specific requirements of this Agreement regarding routes, collection times or similar matters; provided, however, that: (i) in no event shall more than nine days elapse between pickups for customers, and (ii) all customers shall receive at least 24 hours' notice of deviations from collection routes or times.

9.5.2. Notice. The Party claiming excuse from performance shall, within two (2) business days after such party has notice of such cause, give the other party notice of the facts constituting such cause, efforts undertaken by the Company to attempt to perform this Agreement, the estimated timelines for such performance, and asserting its claim to excuse under this Section; provided, that failure to give such notice shall not eliminate the excuse from performance except to the extent the other Party shall have been prejudiced by such failure.

#### 9.6. **DISPUTE RESOLUTION.**

9.6.1. Reference of dispute. Any dispute seeking damages and any dispute seeking other legal or equitable relief, including but not limited to specific enforcement of any provision hereof, shall be heard and determined as provided below in this Section 9.6.

9.6.2. Dispute Resolution Procedures.

9.6.2.1. Negotiations. In the event that any dispute may arise, the parties shall first seek to resolve any disputes by negotiations between a senior executive of the Company and the City Administrator (the “Senior Executives”).

9.6.2.1.1. Notification. When a party believes there is a dispute relating to the Agreement, the party will give the other party written notice of the dispute.

9.6.2.1.2. Meeting among Senior Executives. The Senior Executives shall meet at a mutually acceptable time and place within thirty (30) days after the date of the notice to exchange relevant information and to attempt to resolve the dispute. If a Senior Executive intends to be accompanied at a meeting by an attorney, the other party’s Senior Executive shall be given at least three (3) business days’ notice of such intention and may also be accompanied by an attorney.

9.6.2.1.3. Confidentiality. All negotiations are confidential and shall be treated as compromise and settlement negotiations under the State of California Rules of Evidence.

9.6.2.2. City Council. If the dispute has not been resolved within thirty (30) days after the date of the notice of a dispute, or if the party receiving such notice fails or refuses to meet within such time period, either party may submit the dispute to the City Council for resolution by making written request to the City Council. The City Council shall consider the dispute at a meeting to be held within thirty (30) days following receipt of such request.

9.6.2.3. Litigation. If a dispute has not been resolved to the satisfaction of the parties within sixty (60) days after the written submission to the City Council, then either party may initiate litigation in the courts of the State of California, which shall have exclusive jurisdiction over such disputes. The exclusive venue for such disputes shall be Butte County.

9.6.3. Interim Measures. Notwithstanding the requirements for alternative dispute resolution procedures (such as negotiation and submission to the City Council), either party may apply to the courts of the State of California for equitable relief, including temporary restraining orders, injunctions, attachments and conservation orders in appropriate circumstances.

9.6.4. Costs and Attorney's Fees. In the event of any action or litigation to enforce this Agreement, for interpretation or construction of this Agreement, or on account of any default under or breach of this Agreement, each party to such action, arbitration or litigation shall bear its own costs and expenses in connection with such action or litigation.

9.6.5. Punitive Damages. Penal, punitive, treble, multiple, consequential, incidental or similar damages may not be recovered or awarded as damages for a breach of this Agreement. However, notwithstanding the preceding sentence, in the case of a finding of tortious liability by either party, there shall be no prohibition on the award of punitive, exemplary or treble damages where such damages are based upon a judicial finding of "fraud", "oppression" or "malice" as those terms are defined in California Civil Code 3294.

## 10. ASSIGNMENT.

10.1. "Assignment" means: (i) a sale, exchange or other transfer of this Agreement, the Company's rights hereunder, or substantially all of the Company's assets dedicated to service under this Agreement to a third party; (ii) a sale, exchange or other transfer of thirty (30) percent or more of the outstanding common stock of the Company; (iii) any reorganization, consolidation, merger re-capitalization, stock issuance or re-issuance, voting trust, pooling Agreement, escrow arrangement, liquidation or other transaction to which the Company or any of its shareholders is a party which results in a change of ownership or control of thirty (30) percent or more of the value or voting rights in the stock of the Company; and (iv) any combination of the foregoing (whether or not in related or contemporaneous transactions) which has the effect of any such transfer or change of ownership; provided that the effect of such occurrence is to change control of the Company or responsibility for this Agreement to an entity that is not controlled by Company's ultimate parent entity (as defined on the effective date of this Agreement in 16 CFR §801.1(a)(3)). For purposes of this Section, the term "proposed assignee" shall refer to the proposed assignee(s) or other successor(s) in interest pursuant to the assignment. If the Company is a subsidiary of another corporation or business entity, any "Assignment," as defined above, by the parent company or corporation shall be considered an Assignment by the Company; provided, however, that no such occurrence shall constitute an "Assignment" if, following such occurrence, the surviving ultimate parent entity is owned by a large, fluid aggregation of shareholders where no shareholder owns more than ten percent (10%) of the voting securities of the surviving ultimate parent entity (excluding, however, any such shareholder that prior to such transaction owned 10% or more of the voting securities of the ultimate parent entity of Company). Notwithstanding any other provision of this Section 10, reorganizations, mergers, consolidations, sales of equity or assets or similar transactions between or among entities owned by the same ultimate parent, including but not limited to Company and regardless of which entity is the survivor, do not constitute an Assignment.

10.2. In connection with any proposed Assignment, the Company shall furnish the City with satisfactory proof that any proposed assignee has the demonstrated technical and financial capability to perform all Franchise Services, including:

- 10.2.1. That the proposed assignee has at least 10 years of Solid Waste management experience on a scale equal to or exceeding the scale of operations conducted by Company under this Agreement.
- 10.2.2. In the last five (5) years, the proposed assignee has not suffered any significant citations or other censure from any State, federal or local laws and the assignee has provided City with a complete list of such citations and censures.
- 10.2.3. The proposed assignee has at all times conducted its operations in an environmentally safe and conscientious fashion.
- 10.2.4. The proposed assignee conducts its Solid Waste management practices in accordance with sound Solid Waste management practices in full compliance with all federal, State and local laws regulating the collection and Disposal of Solid Waste including hazardous substances.
- 10.2.5. Assignee has experience in billing Customers for a city of comparable size to City of Gridley in which the company has provided residential and Commercial Service, and has successfully performed the billing and collection services for a minimum of five years for Residential and Commercial Customers.
- 10.2.6. Financial assurances that confirm the assignee's financial ability to perform the Agreement, and the City may require changes to the insurance coverage provided in this Agreement (including without limitation insurance products, coverage limits, deductibles and self-insured retentions) as appropriate in view of the assignee's financial capability and to confirm the assignee's financial ability to perform all Franchise Services and its other responsibilities under this Agreement.
- 10.2.7. Any other information required by City to ensure the proposed assignee can fulfill the terms of this Agreement in a timely, safe and effective manner.

The City shall consent to such an assignment if such information reasonably demonstrates that the proposed assignee has the demonstrated technical and financial capability to perform all Franchise Services.

10.3. If the City consents to an Assignment at the point of transition, the Company shall cooperate with the City and subsequent Company(s) or subcontractor(s) to assist in an orderly transition which shall include the Company providing route lists and billing information. If any entity succeeds to the rights duties and obligations of the Company under this Agreement in conformity with the terms of this Section 10 (including with the City's consent, where required), then the City shall execute a novation whereby such new entity shall assume all of the rights, duties and obligations of the Company under

this Agreement and the City shall release the Company of all obligation and liability under this Agreement.

10.4. The Company shall not delegate or subcontract its obligations under this Agreement to any other person or entity without the prior written consent of the City, other than a delegation or subcontract to an affiliate of the Company.

## 11. MISCELLANEOUS.

11.1. **AMENDMENT.** Except for rate and fee adjustments made pursuant to Section 6 of this Agreement, this Agreement may be amended or modified only by a written agreement duly authorized and executed by both City and Company.

11.2. **INDEPENDENT COMPANY.** It is expressly understood and agreed that Company shall perform all work and services described herein as an independent contractor and not as an officer, agent, servant or employee of City; that Company shall have the exclusive control over the details of the services and work performed hereunder and all persons performing the same; that Company shall be solely responsible for the acts and omissions of its officers, agents, employees, contractors and subcontractors, if any; and that nothing herein shall be construed as creating a partnership or joint venture between City and Company. Neither Company nor its officers, employees, agents or subcontractors shall obtain any rights to retirement benefits, workers' compensation benefits or any other benefits which accrue to City employees.

11.3. **RIGHT OF ENTRY.** Company shall have the right, until receipt of written notice revoking permission to pass is delivered to Company, to enter or drive on any private street, court, place, easement or other private property for the purpose of collecting or transporting Franchise Materials of the Owner or Customer located on the private street, easement, or property, or its lawful occupant.

11.4. **LAW TO GOVERN.** It is understood and agreed by the parties hereto that the laws of the State of California shall govern the rights, obligation, duties and liabilities of the parties to this Agreement and shall govern the interpretation of this Agreement.

11.5. **FEES AND GRATUITIES.** Company shall not, nor shall it permit any agent, employee or subcontractor employed by it to, request, solicit, demand or accept, either directly or indirectly, any compensation or gratuity for the collection of Franchise Materials otherwise required to be collected under this Agreement, other than acceptance by drivers of holiday gifts offered by customers of a reasonable value.

11.6. **NOTICES.** All notices, demands, requests, consents or other communications which this Agreement contemplates or authorizes, or requires or permits either party to give to the other, shall be in writing and shall be personally delivered or sent by registered or certified mail, postage prepaid, return receipt requested, or a nationally recognized overnight delivery service (receipt requested), addressed to the respective party as follows:

To CITY: City of Gridley  
City Hall  
685 Kentucky Street  
Gridley, CA 95948  
Attn: City Administrator

With Copy to:  
Anthony E. Galyean, Esq.  
Gridley City Attorney  
1129 D Street, PO Box "A"  
Marysville, CA 95901

To COMPANY: USA Waste of California, Inc.  
Attn: President  
333 E. Turner Road  
Lodi, CA 95240

or to such address as either party may from time to time designate by notice to the other given in accordance with this Section. Such notice shall be deemed effective on the date personally served or, if mailed, three (3) business days from the date such notice is deposited in the mail.

**11.7. SEVERABILITY.** If any non-material provision of this Agreement shall for any reason be held to be invalid or unenforceable, the invalidity or unenforceability of such provision shall not affect the validity and enforceability of any of the remaining provisions of this Agreement, which shall be enforced as if such invalid or unenforceable provision had not been contained herein.

11.8. **GOOD FAITH AND EXERCISE OF OPTIONS.** Parties will exercise any approval, disapproval, consent, option, discretion, election, opinion or choice under this Agreement, make a requirement under this Agreement, or interpret this Agreement (“Discretionary Action”) reasonably. Parties will exercise their rights and remedies in good faith in accordance with Applicable Law. Any referee, court or other decision-maker must find the party’s exercise to be reasonable.

**11.9. ENTIRE AGREEMENT; PRIOR AGREEMENTS; WAIVER.** This Agreement, including all Exhibits and Attachments attached hereto, constitutes the full and entire agreement between the parties with respect to the matters covered herein. All prior and contemporaneous agreements, understandings, negotiations, writings and other communications between the parties are hereby superseded and are no longer of any force and effect, except to the extent that the terms of such communications are expressly addressed in this Agreement. As of the Effective Date, this Agreement shall supersede any and all prior agreements between the parties. No waiver of any provision of this Agreement shall be deemed or shall constitute a waiver of any other provision, nor shall any waiver constitute a continuing waiver.

11.10. **SECTION HEADINGS.** The section and subsection headings in this Agreement are for convenience of reference only and are not intended to be used in the construction of this Agreement nor to alter or affect any of its provisions.

11.11. **INTERPRETATION.** The language of each and all paragraphs, terms and/or provisions of this Agreement, shall, in all cases and for any and all purposes, and in any way and all circumstances whatsoever, be construed as a whole, according to its fair meaning, and not for or against any party hereto and with no regard whatsoever to the identity or status of any person or persons who drafted all or any portion of this Agreement.

11.12. **THIRD PARTIES.** Nothing in this Agreement expressed or implied is intended or shall be construed to confer upon or give to any person or entity other than the Parties hereto and their successors and permitted assigns, any rights or remedies under or by reason of this Agreement.

11.13. **AUTHORITY.** All individuals executing this Agreement on behalf of the City or the Company represent and warrant that they are duly authorized to execute and deliver this Agreement to the other Party.

Signatures on following page

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the day and year first above written.

CITY OF GRIDLEY, CALIFORNIA

By: Enrique Arteaga  
Name: Enrique Arteaga  
Title: City Administrator

USA WASTE OF CALIFORNIA, INC.

By: Barney Skolnick  
Name: Barney Skolnick  
Title: President

**Exhibit 1**  
**Recyclable Materials**

- Aluminum cans
- Glass jars and bottles
- Paper junk mail
- Colored paper and bags
- Steel, bi-metal, and tin cans
- Mixed paper
- Brown paper bags
- Plastic bottles and jugs
- Chip board
- Catalogs
- Plastic containers (#1-2)
- Clean foil containers
- Paper egg cartons
- Corrugated cardboard
- Small scrap and cast aluminum

**Exhibit 2**  
**First Year Service Rates**



**CITY OF GRIDLEY**  
**Effective 1/1/2024**  
**Residential Rates**

**Residential Carts**

<b>Service</b>	<b>Rate</b>
<b>35 gallon - Senior</b>	<b>\$21.75</b>
<b>35 gallon</b>	<b>\$25.86</b>
<b>64 gallon</b>	<b>\$29.89</b>
<b>95 gallon</b>	<b>\$34.97</b>
<b>Add'l 35 gallon</b>	<b>\$12.93</b>
<b>Add'l 64 gallon</b>	<b>\$14.95</b>
<b>Add'l 90 gallon</b>	<b>\$17.48</b>

**Extra Pickup Charges**

<b>Service</b>	<b>Rate</b>
<b>35 gallon</b>	<b>\$10.62</b>
<b>64 gallon</b>	<b>\$12.19</b>
<b>95 gallon</b>	<b>\$12.19</b>
<b>Bag</b>	<b>\$5.70</b>

**Ancillary Charges**

<b>Service</b>	<b>Rate</b>
<b>Long walk service. Up to 100 feet</b>	<b>\$12.36</b>
<b>Long walk service. 101 to 200 feet</b>	<b>\$24.78</b>
<b>Overfull Container (Snapshot)</b>	<b>\$11.01</b>
<b>Contamination charge</b>	<b>\$13.22</b>
<b>Extra Pickup / Go Back Charge</b>	<b>\$56.58</b>
<b>Replace lost or stolen cart</b>	<b>\$106.89</b>
<b>Replace or Exchange damaged container (not caused by WM)</b>	<b>\$106.89</b>
<b>Account reactivation charge (from bad pay) - no cart delivery</b>	<b>\$56.58</b>
<b>Account reactivation charge (from bad pay) - w/ cart delivery</b>	<b>\$100.62</b>
<b>Late Payment charge</b>	<b>2.5% of balance (\$5.00 min. Chg.)</b>



**CITY OF GRIDLEY**  
**Effective 1/1/2024**  
**Commercial Rates**

Commercial Carts	Rate
35 gallon	\$34.69
64 gallon	\$48.87
95 gallon	\$84.53
Add'l 35 gallon	\$33.38
Add'l 64 gallon	\$48.87
Add'l 90 gallon	\$84.53

Commercial Bin Rates - Quantity 1	1 x Week	2 x Week	3 x Week	4 x Week	5 x Week	6 x Week
	Rate	Rate	Rate	Rate	Rate	Rate
1 Yard	\$151.25	\$244.03	\$336.85	\$429.64	\$522.43	\$665.69
1.5 Yard	\$185.36	\$301.50	\$416.45	\$532.61	\$647.57	\$824.93
2 Yard	\$243.37	\$396.48	\$549.55	\$702.64	\$854.43	\$1,089.85
3 Yard	\$301.41	\$491.37	\$681.36	\$872.64	\$1,062.61	\$1,356.09
4 Yard	\$358.17	\$586.30	\$814.52	\$1,042.58	\$1,270.72	\$1,620.99
5 Yard	\$416.23	\$681.25	\$947.55	\$1,212.60	\$1,477.65	\$1,885.93
6 Yard	\$474.27	\$777.44	\$1,079.39	\$1,382.62	\$1,685.80	\$2,150.87
8 Yard	\$689.05	\$967.31	\$1,344.32	\$1,722.61	\$2,100.84	\$2,681.99

Commercial Bin Rates - Quantity 2	1 x Week	2 x Week	3 x Week	4 x Week	5 x Week	6 x Week
	Rate	Rate	Rate	Rate	Rate	Rate
1 Yard	\$295.07	\$480.62	\$666.20	\$851.78	\$1,038.67	\$1,323.88
1.5 Yard	\$363.17	\$594.22	\$825.34	\$1,056.47	\$1,287.62	\$1,642.36
2 Yard	\$479.22	\$785.44	\$1,090.29	\$1,396.52	\$1,702.62	\$2,173.50
3 Yard	\$594.05	\$975.27	\$1,356.50	\$1,736.53	\$2,117.76	\$2,703.35
4 Yard	\$710.14	\$1,165.08	\$1,621.56	\$2,076.43	\$2,532.65	\$3,234.48
5 Yard	\$825.00	\$1,356.30	\$1,886.35	\$2,417.69	\$2,947.86	\$3,764.32
6 Yard	\$941.02	\$1,546.10	\$2,151.28	\$2,757.74	\$3,362.88	\$4,295.52
8 Yard	\$1,170.59	\$1,927.13	\$2,682.38	\$3,437.68	\$4,192.93	\$5,356.49

Commercial Bin Rates - Quantity 3	1 x Week	2 x Week	3 x Week	4 x Week	5 x Week	6 x Week
	Rate	Rate	Rate	Rate	Rate	Rate
1 Yard	\$437.55	\$717.16	\$995.58	\$1,275.21	\$1,553.62	\$1,982.07
1.5 Yard	\$542.29	\$888.23	\$1,234.30	\$1,580.31	\$1,927.68	\$2,459.78
2 Yard	\$715.08	\$1,173.13	\$1,632.32	\$2,091.66	\$2,549.54	\$3,255.86
3 Yard	\$887.97	\$1,459.15	\$2,030.34	\$2,601.64	\$3,172.89	\$4,051.92
4 Yard	\$1,060.80	\$1,743.86	\$2,428.58	\$3,111.53	\$3,794.65	\$4,846.71
5 Yard	\$1,233.70	\$2,030.06	\$2,826.42	\$3,621.51	\$4,418.01	\$5,642.78
6 Yard	\$1,406.51	\$2,314.79	\$3,223.16	\$4,132.87	\$5,041.20	\$6,438.86
8 Yard	\$1,752.16	\$2,885.67	\$4,019.21	\$5,152.81	\$6,286.26	\$8,029.73

Multi-Unit Residential Bin Rates	1 x Week	2 x Week	3 x Week	4 x Week	5 x Week	6 x Week
	Rate	Rate	Rate	Rate	Rate	Rate
1 Yard	\$134.28	\$216.06	\$297.83	\$379.56	\$461.33	\$583.53
1.5 Yard	\$164.25	\$265.44	\$366.68	\$469.15	\$570.37	\$723.19
2 Yard	\$215.44	\$349.11	\$484.04	\$618.99	\$752.64	\$955.53
3 Yard	\$265.36	\$432.74	\$600.14	\$767.54	\$934.89	\$1,187.87
4 Yard	\$316.54	\$516.39	\$717.51	\$917.30	\$1,118.40	\$1,418.89
5 Yard	\$366.49	\$600.03	\$833.55	\$1,067.13	\$1,300.67	\$1,651.26
6 Yard	\$417.68	\$683.66	\$950.94	\$1,216.94	\$1,482.93	\$1,883.58
8 Yard	\$518.77	\$850.93	\$1,183.08	\$1,516.50	\$1,848.67	\$2,348.24

Commercial Recycling	Rate
64 Gallon - EOW	\$30.85
2 Yard - 1xWeek	\$91.44
3 Yard - 1xWeek	\$96.96
4 Yard - 1xWeek	\$104.67

6 Yard - 1xWeek	\$119.00
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Extra Pickup Charges	Rate
35 gallon	\$10.91
64 gallon	\$12.53
95 gallon	\$12.53
Bag	\$5.83
1 Yard	\$66.02
1.5 Yard	\$78.56
2 Yard	\$97.84
3 Yard	\$128.70
4 Yard	\$152.15
5 yard	\$177.23
6 Yard	\$202.31
7 Yard	\$227.42
8 Yard	\$252.43

Ancillary Charges	Rate
Extra pickup non-service day Trip Charge	\$125.74
Contamination Bin	\$60.60
Contamination Cart	\$18.73
Lock bar and lock - one time installation charge	\$169.75
Lock service charge	\$1.25
Container clean/exchange	\$188.64
Replace lost or stolen container	WM Replacement Cost + 25%
Replace container. Damage not caused by WM	WM Replace/Repair Cost + 25%
Overfull Bin (Snapshot)	\$88.15
Overafull Cart (Snapshot)	\$16.53
Account reactivation charge (from bad pay) - no delivery	\$56.58
Account reactivation charge (from bad pay) - w/ delivery	\$245.23
Late Payment charge	2.5% of balance (\$5.00 min. Chg.)



**CITY OF GRIDLEY**  
**Effective 1/1/2024**  
**Debris Box Rates**

<b>Debris Box - Municipal Solid Waste</b>	
<b>Service</b>	<b>Rate</b>
<b>20 Yard - MSW</b>	<b>\$497.44</b>
<b>30 Yard - MSW</b>	<b>\$563.17</b>
<b>40 Yard - MSW</b>	<b>\$633.56</b>
<b>20 Yard - Tires</b>	<b>\$994.92</b>
<b>30 Yard - Tires</b>	<b>\$1,124.74</b>
<b>40 Yard - Tires</b>	<b>\$1,451.69</b>

<b>Debris Box - Clean Recyclable Materials</b>	
<b>Service</b>	<b>Rate</b>
<b>20 Yard - Wood or Metal</b>	<b>\$303.53</b>
<b>30 Yard - Wood or Metal</b>	<b>\$342.59</b>
<b>40 Yard - Wood or Metal</b>	<b>\$377.00</b>
<b>20 Yard - Masonry</b>	<b>\$303.53</b>
<b>10 Yard - Concrete</b>	<b>\$323.82</b>

<b>Ancillary Fees</b>	
<b>Service</b>	<b>Rate</b>
<b>Demurrage - Per Day</b>	<b>\$17.50</b>
<b>Waste Trip Charge</b>	<b>\$65.16</b>
<b>Compactor - Per Yard</b>	<b>\$31.26</b>
<b>Delivery</b>	<b>\$188.64</b>
<b>Exchange</b>	<b>\$188.64</b>
<b>Trip Charge</b>	<b>\$188.64</b>
<b>Relocate</b>	<b>\$188.64</b>
<b>Removal</b>	<b>\$188.64</b>
<b>Excessive Net Weight</b>	<b>\$880.27</b>
<b>Replace lost or stolen Roll Off Box</b>	WM Replacement Cost + 25%
<b>Replace Roll Off Box. Damage not caused by WM</b>	WM Replace/Repair Cost + 25%
<b>Account reactivation charge (from bad pay) - no delivery</b>	<b>\$55.82</b>
<b>Account reactivation charge (from bad pay) - w/ delivery</b>	<b>\$186.08</b>
<b>Late Payment charge</b>	2.5% of balance (\$5.00 min. Chg.)



**CITY OF GRIDLEY**  
**Effective 1/1/2024**  
**Ord Ranch Transfer Station**

<b>ORD Ranch Road Transfer Station Rate Schedule</b>		
<b>Service</b>	<b>Rate</b>	<b>Rounded Rate (to nearest dollar)</b>
<b>Minimum Charge</b>	\$14.32	\$14.00
<b>Up to 2 barrels</b>	\$14.32	\$14.00
<b>Up to 3 cans</b>	\$14.32	\$14.00
<b>Any size pickup</b>	\$30.06	\$30.00
<b>Bulky Items (each)</b>	\$24.73	\$25.00
<b>Appliances with Freon</b>	\$54.03	\$54.00
<b>Appliances without Freon</b>	\$24.73	\$25.00
<b>CRT's / Televisions up to 31" *</b>	\$0.00	\$0.00
<b>Wire (per approx yard)</b>	\$21.38	\$21.00
<b>Car Tires</b>	\$7.31	\$7.00
<b>Truck Tires</b>	\$21.38	\$21.00

**\*(for Televisions over 32" call City offices for appropriate disposal)**

**Exhibit 3**  
**City Facilities / Special Events**

Company shall provide the following services at no charge to the City.

**CITY FACILITIES\***

City Hall/Police Facility	4-cubic yard container
Electric Warehouse	2 cubic yard container
Fire Station	2 cubic yard container

\* Containers shall be emptied weekly or more often if necessary.

**SPECIAL EVENTS**

Solid waste containers and recycling containers for up to 4 community events, per year.

- A total of 20 solid waste containers ranging from 2-cubic yards to 4-cubic yards shall be provided on an annual basis.
- Recycling containers are to be provided as directed by the City.

**City Council Agenda Item #2**  
Staff Report

<b>Date:</b>	February 2, 2026	<input checked="" type="checkbox"/>	Regular
<b>To:</b>	Mayor and City Council	<input type="checkbox"/>	Special
<b>From:</b>	Martin Pineda, Finance Director	<input type="checkbox"/>	Closed
<b>Subject:</b>	FY 2025-2026 Mid-Year Budget Review	<input type="checkbox"/>	Emergency

**Recommendation**

Staff respectfully requests the City Council approve Resolution 2026-R-003, “a resolution of the city of Gridley authorizing the modification of the 2025-2026 budget by appropriating supplemental funds,” by reading of title only.

**Background**

The Finance staff is proposing a single round of mid-year budget revisions and has met with Department Directors and the City Administrator in a series of meetings to review current budgets and discuss anticipated activity for the remainder of FY 2025-2026. There were major changes to the general/enterprise funds Capital Improvement Projects which were rolled forward. Several recent actions have influenced the overall budget increases.

The following is a summary of budget revisions prepared by the Finance Department. Only the major changes are listed below. The full Mid-Year Review will be attached to this staff report.

The list that follows doesn't represent all changes, these are some of the major changes in each department.

- **Council:**
  - \$10k increase to Salaries to cover employee costs.
  - \$10k increase to special dept to cover Salaries Account.
  - \$8.1k overall decrease to this department.
- **Council Abatement:**
  - Miscellaneous adjustments for budget accuracy.
  - \$3.5k overall decrease to this department.
- **Administration:**
  - \$35k increase to Salaries to cover employee costs.
  - \$18.5k increase to Professional. This covers attorney receiverships costs, Annual LAFCO Contribution, Compensation Study, and Employee Enrichment Program. (Enrichment Program is reimbursable through NCCSIF ~\$14k) This will also cover part of the cost for Master Fee Study.

- \$30K increase to Special Dept Expense. This account is used to pay ~\$13k to the City of Chico to comply with SB1383 as well as Butte County GSA (Groundwater Sustainability Act ~\$15k)
  - \$86.7k increase overall to this department.
- **Ord Ranch Transfer Station:**
  - This is a new department to account for expenses at the Ord Ranch Transfer Station. We budgeted \$8k for the remainder of the Fiscal Year.
- **Attorney:**
  - \$40k increase in Professional Services. This is to account for the various attorneys handling ongoing litigation.
- **City Hall Maintenance:**
  - Miscellaneous decrease in various accounts for a more accurate budget.
  - \$11.3k overall decrease for this department.
- **Finance:**
  - \$50k decrease to Professional Services. Accounting Services have not been and will not be used.
  - \$49.2k overall decrease for this department.
- **Police:**
  - \$80k to Salaries for 2 additional officers. This will be covered by the Biggs Contract for Police Services.
  - \$22K increase to Extra Help to cover Police Work.
  - \$23.5 increase to Professional. \$15k will be moved over from BINTF department and \$8.5k is for the Master Fee Study/Cost Allocation Study.
  - \$35k to Special Dept Expense to cover the Annual Axon Payment. (Body Worn Cameras).
  - \$107k for a new Police Vehicle per Biggs Contract for Police Services
  - \$292k overall increase to this department.
- **BINTF:**
  - \$21k overall decrease for this department.
- **School Resource Officer:**
  - \$13.9k overall decrease for this department.
- **Fire:**
  - \$14k decrease to Equipment Maintenance. New Fire truck should decrease the need for major maintenance.
  - \$150 decrease to Special Dept expense. This will be moved over to Equipment and Debt Svce – Int accounts for the Fire Truck Loan payment.
  - \$95.2k increase to Debt Svce – Int for interest paid to the loan.

- \$60k increase to Equipment for principal paid to the loan.
- \$7.1k overall decrease to the department.
- **Animal Control:**
  - \$20k decrease in Salaries.
  - \$15k decrease to Retirement.
  - \$27.8k overall decrease to department
- **Streets:**
  - \$15k decrease to Salaries.
  - \$8.1k decrease to Extra Help. Enough funds in the Parks Department to cover PT workers.
  - \$7.5k increase to Overtime.
  - \$16k increase to Fuel expense.
  - \$15k decrease to Special Department Expense.
  - \$16k overall decrease to department.
- **Engineering:**
  - \$25k increase to Engineering Costs. This covers all engineering, not only the City Engineer, such as on call engineers. Some of these costs are covered by deposits made by developers.
  - \$28k overall increase to department.
- **Corp Yard:**
  - \$75k decrease to Equipment. Security for Corp Yard CIP project will be rolled forward to future budgets.
  - \$77k overall decrease to this department.
- **Parks:**
  - \$10k increase to professional. This will allow staff to apply for potential grants for parks.
  - \$35k decrease in Equipment. This was a new mower for parks that will be rolled forward to future budgets.
  - \$29k overall decrease to this department.
- **Recreation:**
  - \$37k increase to Salaries to cover wages of both FT and PT employees.
  - \$18.9k increase to Soccer League to cover expenses. This was due to community feedback and to purchase the correct equipment.
  - \$62.3k over increase to this department.
- **Boat Ramp:**
  - \$1.7k increase to cover utilities.

- **Planning:**
  - \$17k decrease to Health Insurance Expense.
  - \$50k Increase to professional. This is for on-call planning services, some costs are covered by deposits paid by developers.
  - \$33.8k overall increase to the department.
- **Successor Agency: Funds 208, 210, and 215.**
  - \$119k increase to paid for Series A Bond (Fund 208). This is covered by RPTTF (Redevelopment Property Tax Trust Fund)
  - \$187k increase to pay for Series B Bond (Fund 210). This is covered by RPTTF (Redevelopment Property Tax Trust Fund)
- **State Gas Tax:**
  - \$52.2k decrease from UAL – CALPERS. This was allocation based on employees that are allocated to this fund.
  - \$8k increase to Equipment Maintenance for Street Sweeper.
  - \$4k increase to Special Dept for Street Sweeper.
  - \$42.4k overall decrease for this department.
- **SB325 TDA:**
  - Minor changes to this department. Overall decrease of \$1.2k.
- **Traffic Safety:**
  - Minor changes to this department. Overall increase of \$500.
- **Flood Maintenance #1, 2, and 3:**
  - \$1.5k increase in Salaries and Benefits. (Fund 580)
  - \$12.6k increase for Salaries and Benefits. (Fund 581)
  - \$12.3k increase for Salaries and Benefits. (Fund 582)
- **Electric:**
  - \$150K increase in Salaries to cover new Lineman hire.
  - \$50k increase to Overtime. (from health insurance account).
  - \$50k decrease to Health Insurance.
  - \$225k decrease to Power Purchase.
  - \$25k decrease to Struct&Improve and moved over to Fund 610. CIP Project: Boat Lighting Project.
  - \$79.2k overall decrease to this department.
- **Public Benefits:**
  - \$25k increase to Struct&Improve for Boat Lighting Project.
  - \$24.3k overall increase to this department.

- **Water:**

- \$20.9 decrease to Extra help. Enough funds in the Parks department to cover Extra Help.
- \$20k increase to Special Dept. Hydrant Relocation project was charged here, major expenses in this account are for chlorine.
- \$20k increase to Equipment to purchase erts.
- \$63.4k overall increase to this department.

- **Sewer – Operating:**

- \$16k increase to cover fuel and diesel costs.
- \$20k increase to Special Dept to cover CC fees paid by the city. We are still waiting on the CC company vendor to assign us a implementation specialist to move CC fees to the customer.

- **Sewer – Plant:**

- \$15k decrease to Salaries.
- \$80k increase to Utilities to cover Solar cost.
- \$65k decrease to Struct&Improve. CIP Project WWTP Disposal Basin Repairs to be rolled forward to future budgets.

- **Sewer – Town:**

- \$20.9k decrease to Extra Help. Enough funds in Parks to cover Extra Help.
- \$40k increase to cover cost of new Grinder (CIP Project). Originally it was going to be replaced in future budgets. Due to the current one has failed, this needs to be done this fiscal year.
- \$99k overall increase to Sewer Operating/Plant/Town.

- **Senior Taxi:**

- \$38.1k decrease to Salaries. FT Employee retired.
- \$15k increase to Extra Help.
- \$10k decrease to Health Insurance.
- \$10k increase to professional to allow staff to search for and apply for grants.
- \$17.2k overall decrease to department.

- **SWRCB Revolving Lean- Feather River Sewer Crossing**

- \$400k increase to Engineering Costs. This is 100% grant-funded.

- **Outdoor Equity Grant:**

- \$38.1k overall increase to department. This was supposed to end in December 2025, but we have enough funds to run the same programs through 2026. This is 100% grant-funded.
- **Gridley Sports Complex:**
  - \$100k decrease to Professional expense, to allocate these funds to engineering costs.
  - \$165k Increase to Engineering Costs.
  - \$3 million is reimbursable through a grant. ~\$900k is currently unfunded.

**Summary:**

<b>Summary</b>		
Total General Fund	279,778.24	
Total RDA	306,031.31	
Total Gas Tax	(42,482.12)	
Total TDA	(1,257.50)	
Total Traffic Safety	500.00	
Total Richin MT	1,515.00	
Total Eagle Meadows MT	12,662.44	
Total Heron Landing MT	12,354.24	
Total Electric	(79,249.60)	
Total Public Benefit	24,361.03	
Total Water	63,476.38	
Total Sewer	99,926.12	
Total Taxi	(17,279.64)	
Total Feather River Grant	400,000.00	<i>Reimbursable</i>
Total OEP	38,110.00	<i>Reimbursable</i>
Total Gridley Sports Complex	65,188.16	<i>Reimbursable</i>
Total	1,163,634.06	
<i>Grant Funded Reimbursements</i>	503,298.16	
<i>RDA Passthru</i>	306,031.31	
<i>Biggs Contract Reimbursement</i>	187,357.00	
<i>Operating Increase</i>	166,947.59	

The overall budget will be increased by \$1,163,634.06:

\$503,298.16 of this amount is fully reimbursable by grant funding.

\$306,031.31 of this amount is paid via RPTTF Revenue.

\$187,357.00 of this amount is covered by the City of Biggs Police Services Contract.

\$166,947.59 of the amount is the operating increase. This is mainly driven by recent Labor Union agreements and CIP projects.

**Financial Impact**

An increase to the budget by \$1,163,634.06 for the remainder of the fiscal year.

**Attachment:**

Budget Report

Resolution 2026-R-003

**RESOLUTION NO.  
2026-R-003**

**A RESOLUTION OF THE CITY OF GRIDLEY AUTHORIZING THE MODIFICATION OF THE 2025-2026  
BUDGET BY APPROPRIATING SUPPLEMENTAL FUNDS**

WHEREAS, the City of Gridley has Memorandums of Understanding (MOU) with labor groups representing city employees; and

WHEREAS, the MOU's have provisions for mid year adjustments in the salaries or benefit structure based on cost-of-living indexes or other criteria that are estimated at the time of the initial budget preparation; and

WHEREAS, additional changes have occurred since the implementation of the current budget that has adversely affected expenditures such as services that are unavoidable per consumer price index; and

WHEREAS, a list of the recommended adjustments has been provided to the Council for review;

NOW, THEREFORE, BE IT RESOLVED BY THE GRIDLEY CITY COUNCIL to approve the supplemental appropriation from the stated chart of account codes for the funding of mid-year adjustments per Exhibit "A" attached hereto.

I HEREBY CERTIFY that the foregoing resolution was duly introduced and passed at a regular meeting of the City Council of the City of Gridley held on the 2<sup>nd</sup> of February 2026, by the following vote:

AYES:	COUNCILMEMBERS	_____
NOES:	COUNCILMEMBERS	_____
ABSTAIN:	COUNCILMEMBERS	_____
ABSENT:	COUNCILMEMBERS	_____

ATTEST: APPROVE:

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Elisa Arteaga, City Clerk

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Michael W. Farr, Mayor

# Budget Report

Gridley, CA

## Account Summary

For Fiscal: 2025-2026

Expense

Fund: 010 - General	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
<b>General Fund: Miscellaneous</b>										
010-0000-52760	Transfers Out	100,000.00	100,000.00	-	0.00%					
010-0000-54000	Special Dept.	13,000.00	474.12	12,525.88	96.35%	(12,000.00)	1,000.00	525.88	52.59%	
010-4999-40134	TOT BCT BID	-	1,434.70	(1,434.70)	0.00%		-	(1,434.70)	0.00%	
						Increase (Decrease)	(12,000.00)			
<b>General Fund: Council</b>										
010-4010-51000	Salaries	62,553.68	37,313.90	25,239.78	40.35%	10,000.00	72,553.68	35,239.78	48.57%	
010-4010-51100	Workmans Comp.	2,800.91	122.38	2,678.53	95.63%	(2,000.00)	800.91	678.53	84.72%	
010-4010-51200	Retirement	4,147.08	2,369.70	1,777.38	42.86%	500.00	4,647.08	2,277.38	49.01%	
010-4010-51250	UAL - CALPERS	18,072.81	10,967.32	7,105.49	39.32%	(7,105.49)	10,967.32	-	0.00%	
010-4010-51300	Health Insuranc	6,266.63	1,438.96	4,827.67	77.04%	(2,750.00)	3,516.63	2,077.67	59.08%	
010-4010-51310	Health Insuranc	-	32.50	(32.50)	0.00%	75.00	75.00	42.50	56.67%	
010-4010-51400	Dental Insur.	791.98	552.54	239.44	30.23%	350.00	1,141.98	589.44	51.62%	
010-4010-51800	Disability Insr	579.50	398.96	180.54	31.15%	150.00	729.50	330.54	45.31%	
010-4010-51900	Medicare Tax	578.47	541.00	37.47	6.48%	500.00	1,078.47	537.47	49.84%	
010-4010-51902	Social Security	1,116.00	558.00	558.00	50.00%					
010-4010-51903	EAP	67.61	16.53	51.08	75.55%					
010-4010-51904	Physical Fitness	153.00	-	153.00	100.00%	(153.00)	-	-	0.00%	
010-4010-52100	Communications	1,300.00	538.30	761.70	58.59%					
010-4010-52400	Insurance	1,980.32	-	1,980.32	100.00%					
010-4010-53300	Memberships	1,000.00	300.00	700.00	70.00%	(700.00)	300.00	-	0.00%	
010-4010-53500	Office	500.00	-	500.00	100.00%					
010-4010-53600	Professional	2,000.00	893.19	1,106.81	55.34%					
010-4010-53650	Information Technology	4,715.00	5,809.70	(1,094.70)	-23.22%	3,000.00	7,715.00	1,905.30	24.70%	
010-4010-54000	Special Dept.	22,000.00	3,073.26	18,926.74	86.03%	(10,000.00)	12,000.00	8,926.74	74.39%	
010-4010-54300	Trans. & Travel	8,500.00	3,895.98	4,604.02	54.16%					
010-4010-55000	Contributions	11,500.00	11,500.00	-	0.00%					
010-4010-56300	Equipment	-	-	-	0.00%					
						Increase (Decrease)	(8,133.49)			

General Fund: Council Abatement	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage	
010-4011-51000	Salaries	9,320.17	4,137.90	5,182.27	55.60%					
010-4011-51002	Overtime	200.00	-	200.00	100.00%					
010-4011-51100	Workmans Comp.	675.71	19.85	655.86	97.06%	(500.00)	175.71	155.86	88.70%	
010-4011-51200	Retirement	741.89	331.48	410.41	55.32%					
010-4011-51250	UAL - CALPERS	9,450.64	2,577.50	6,873.14	72.73%	(6,873.14)	2,577.50	-	0.00%	
010-4011-51300	Health Insurance	1,677.63	192.00	1,485.63	88.56%	(1,100.00)	577.63	385.63	66.76%	
010-4011-51400	Dental Insur.	221.61	110.81	110.80	50.00%					
010-4011-51800	Health Insurance	139.80	96.00	43.80	31.33%					
010-4011-51900	Medicare Tax	135.14	60.01	75.13	55.59%					
010-4011-51903	Employee Assistance Program	16.31	5.05	11.26	69.04%					
010-4011-51904	Physical Fitness	48.00	-	48.00	100.00%	(48.00)	-	-	0.00%	
010-4011-52400	Insurance	3,560.83	-	3,560.83	100.00%					
010-4011-53600	Professional	-	3,145.25	(3,145.25)	0.00%		5,000.00	5,000.00	1,854.75	37.10%
					Increase (Decrease)	(3,521.14)				
General Fund: Administration	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage	
010-4020-51000	Salaries	143,365.53	80,549.64	62,815.89	43.82%	35,000.00	178,365.53	97,815.89	54.84%	
010-4020-51002	Overtime	4,000.00	-	4,000.00	100.00%	(3,000.00)	1,000.00	1,000.00	100.00%	
010-4020-51100	Workmans Comp.	10,021.95	352.08	9,669.87	96.49%					
010-4020-51200	Retirement	13,671.46	6,912.33	6,759.13	49.44%					
010-4020-51250	UAL - CALPERS	39,477.63	40,300.85	(823.22)	-2.09%	823.22	40,300.85	-	0.00%	
010-4020-51300	Health Insuranc	24,816.60	11,195.06	13,621.54	54.89%					
010-4020-51310	Health Insuranc	-	650.00	(650.00)	0.00%	1,000.00	1,000.00	350.00	35.00%	
010-4020-51311	Retiree Health	40,426.86	42,690.83	(2,263.97)	-5.60%	2,263.97	42,690.83	-	0.00%	
010-4020-51400	Dental Insur.	3,178.21	1,831.20	1,347.01	42.38%	300.00	3,478.21	1,647.01	47.35%	
010-4020-51800	Disability Insr	2,073.51	1,136.19	937.32	45.20%					
010-4020-51900	Medicare Tax	2,004.39	1,168.54	835.85	41.70%					
010-4020-51903	EAP	241.91	59.05	182.86	75.59%					
010-4020-51904	Physical fitnes	603.00	300.00	303.00	50.25%					
010-4020-52100	Communications	3,000.00	1,482.76	1,517.24	50.57%					
010-4020-52400	Insurance	5,011.63	214.00	4,797.63	95.73%					
010-4020-53000	Equipment Mtnc.	2,250.00	2,444.32	(194.32)	-8.64%	2,500.00	4,750.00	2,305.68	48.54%	
010-4020-53300	Memberships	5,815.00	7,299.84	(1,484.84)	-25.53%	5,800.00	11,615.00	4,315.16	37.15%	
010-4020-53500	Office	12,000.00	8,160.07	3,839.93	32.00%	2,500.00	14,500.00	6,339.93	43.72%	
010-4020-53600	Professional	43,709.00	51,593.68	(7,884.68)	-18.04%	18,500.00	62,209.00	10,615.32	17.06%	
010-4020-53650	Information Technology	123,215.00	105,569.95	17,645.05	14.32%					
010-4020-53700	Publications	2,000.00	-	2,000.00	100.00%					
010-4020-53800	Rents-Equipment	350.00	106.32	243.68	69.62%					
010-4020-53960	Fuel	4,000.00	1,685.17	2,314.83	57.87%					
010-4020-54000	Special Dept.	5,185.00	29,858.94	(24,673.94)	-475.87%	30,000.00	35,185.00	5,326.06	15.14%	
010-4020-54300	Trans. & Travel	18,000.00	5,768.41	12,231.59	67.95%					
010-4020-56300	Equipment	9,142.85	188.85	8,954.00	97.93%	(8,954.00)	188.85	0.00	0.00%	
					Increase (Decrease)	86,733.19				

General Fund: Ord Ranch Transfer Station	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4025-53000	Equipment Mtnc.	-	4,249.58	(4,249.58)	0.00%		8,000.00	8,000.00	3,750.42	46.88%
						Increase (Decrease)	8,000.00			
General Fund: Attorney	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4030-52400	Insurance	627.96	-	627.96	100.00%					
010-4030-53600	Professional	50,000.00	47,720.96	2,279.04	4.56%		40,000.00	90,000.00	42,279.04	46.98%
						Increase (Decrease)	40,000.00			
General Fund: City Hall Maintenance	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining					
010-4100-52100	Communications	2,000.00	800.77	1,199.23	59.96%					
010-4100-52400	Insurance	2,931.30	-	2,931.30	100.00%					
010-4100-53000	Equipment Mtnc.	8,000.00	2,117.28	5,882.72	73.53%					
010-4100-53200	Mtnce-Structure	4,000.00	485.72	3,514.28	87.86%					
010-4100-53500	Office	500.00	-	500.00	100.00%		(500.00)	-	-	0.00%
010-4100-53600	Professional	20,000.00	8,460.00	11,540.00	57.70%					
010-4100-53650	Information Technology	23,715.00	7,640.42	16,074.58	67.78%		(7,000.00)	16,715.00	9,074.58	54.29%
010-4100-54000	Special Dept.	3,000.00	1,272.24	1,727.76	57.59%					
010-4100-54400	Utilities	10,000.00	3,341.19	6,658.81	66.59%		(3,800.00)	6,200.00	2,858.81	46.11%
						Increase (Decrease)	(11,300.00)			

General Fund: Finance	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4180-51000	Salaries	83,712.27	41,972.92	41,739.35	49.86%					
010-4180-51002	Overtime	500.00	11.25	488.75	97.75%					
010-4180-51100	Workmans Comp.	5,205.19	195.98	5,009.21	96.23%					
010-4180-51200	Retirement	6,341.35	2,970.07	3,371.28	53.16%					
010-4180-51250	UAL - CALPERS	20,991.69	16,766.67	4,225.02	20.13%	(4,225.02)	16,766.67	-	0.00%	
010-4180-51300	Health Insurance	9,559.96	4,482.56	5,077.40	53.11%	(500.00)	9,059.96	4,577.40	50.52%	
010-4180-51310	Health Insuranc	-	325.00	(325.00)	0.00%	800.00	800.00	475.00	59.38%	
010-4180-51400	Dental Insur.	1,800.88	892.43	908.45	50.44%					
010-4180-51800	Disability Insr	1,076.94	505.79	571.15	53.03%					
010-4180-51900	Medicare Tax	1,041.04	608.84	432.20	41.52%					
010-4180-51902	Social Security	-	39.81	(39.81)	0.00%	300.00	300.00	260.19	86.73%	
010-4180-51903	EAP	125.64	27.12	98.52	78.41%					
010-4180-51904	Physical fitnes	381.00	725.00	(344.00)	-90.29%	1,000.00	1,381.00	656.00	47.50%	
010-4180-52100	Communications	2,000.00	560.64	1,439.36	71.97%					
010-4180-52400	Insurance	5,248.87	-	5,248.87	100.00%					
010-4180-53000	Equipment Mtnc.	30,000.00	9,880.52	20,119.48	67.06%	(5,000.00)	25,000.00	15,119.48	60.48%	
010-4180-53300	Memberships	1,500.00	250.00	1,250.00	83.33%	(1,000.00)	500.00	250.00	50.00%	
010-4180-53500	Office	12,000.00	5,816.89	6,183.11	51.53%					
010-4180-53600	Professional	113,859.00	36,747.49	77,111.51	67.73%	(50,000.00)	63,859.00	27,111.51	42.46%	
010-4180-53650	Information Technology	6,215.00	6,616.11	(401.11)	-6.45%	5,000.00	11,215.00	4,598.89	41.01%	
010-4180-53700	Publications	500.00	330.00	170.00	34.00%	500.00	1,000.00	670.00	67.00%	
010-4180-53800	Rents-Equipment	500.00	106.32	393.68	78.74%					
010-4180-54000	Special Dept.	5,000.00	3,250.28	1,749.72	34.99%					
010-4180-54300	Trans. & Travel	12,000.00	12,187.87	(187.87)	-1.57%	8,000.00	20,000.00	7,812.13	39.06%	
010-4180-55710	Over/Short	-	(18.95)	18.95	0.00%					
010-4180-56300	Equipment	1,142.85	-	1,142.85	100.00%	(1,142.85)	-	-	0.00%	
					Increase (Decrease)	(46,267.87)				

General Fund: Police	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4200-51000	Salaries	1,836,657.24	1,009,154.60	827,502.64	45.05%	80,000.00	1,916,657.24	907,502.64	47.35%
010-4200-51001	Extra Help	11,910.12	21,576.09	(9,665.97)	-81.16%	22,000.00	33,910.12	12,334.03	36.37%
010-4200-51002	Overtime	130,000.00	72,606.00	57,394.00	44.15%				
010-4200-51100	Workmans Comp.	130,502.52	42,462.99	88,039.53	67.46%				
010-4200-51200	Retirement	321,088.97	155,910.04	165,178.93	51.44%				
010-4200-51250	UAL - CALPERS	585,228.00	566,290.00	18,938.00	3.24%	(18,938.00)	566,290.00	-	0.00%
010-4200-51300	Health Insuranc	292,480.30	130,314.60	162,165.70	55.44%	(7,000.00)	285,480.30	155,165.70	54.35%
010-4200-51310	Health Insuranc	-	3,250.00	(3,250.00)	0.00%	7,000.00	7,000.00	3,750.00	53.57%
010-4200-51311	Retiree Health	116,314.80	131,336.48	(15,021.68)	-12.91%	15,021.68	131,336.48	-	0.00%
010-4200-51400	Dental Insur.	33,079.17	16,033.59	17,045.58	51.53%				
010-4200-51800	Disability Insr	27,000.52	11,455.43	15,545.09	57.57%				
010-4200-51900	Medicare Tax	26,254.91	15,998.47	10,256.44	39.06%				
010-4200-51902	Social Security	431.46	2,184.54	(1,753.08)	-406.31%	3,500.00	3,931.46	1,746.92	44.43%
010-4200-51903	EAP	3,315.78	691.29	2,624.49	79.15%	(1,500.00)	1,815.78	1,124.49	61.93%
010-4200-51904	Physical fitnes	6,900.00	474.25	6,425.75	93.13%				
010-4200-51906	Deferred Comp ER Match	9,000.00	-	9,000.00	100.00%				
010-4200-52000	Safety Clothing	25,500.00	4,278.91	21,221.09	83.22%	(8,000.00)	17,500.00	13,221.09	75.55%
010-4200-52100	Communications	900.00	6,917.15	(6,017.15)	-668.57%	14,000.00	14,900.00	7,982.85	53.58%
010-4200-52400	Insurance	134,591.10	7,346.00	127,245.10	94.54%				
010-4200-53000	Equipment Mtnc.	75,000.00	57,055.04	17,944.96	23.93%	15,000.00	90,000.00	32,944.96	36.61%
010-4200-53300	Memberships	300.00	402.00	(102.00)	-34.00%	102.00	402.00	-	0.00%
010-4200-53500	Office	9,000.00	4,045.60	4,954.40	55.05%				
010-4200-53600	Professional	83,709.00	69,723.57	13,985.43	16.71%	23,500.00	107,209.00	37,485.43	34.96%
010-4200-53650	Information Technology	25,215.00	15,256.07	9,958.93	39.50%				
010-4200-53800	Rents-Equipment	600.00	106.32	493.68	82.28%				
010-4200-53960	Fuel	45,000.00	23,092.42	21,907.58	48.68%				
010-4200-54000	Special Dept.	55,000.00	78,000.99	(23,000.99)	-41.82%	35,000.00	90,000.00	11,999.01	13.33%
010-4200-54300	Trans. & Travel	23,000.00	19,397.00	3,603.00	15.67%	5,000.00	28,000.00	8,603.00	30.73%
010-4200-54400	Utilities	5,000.00	1,599.26	3,400.74	68.01%				
010-4200-56300	Equipment	2,643.00	-	2,643.00	100.00%	107,357.00	110,000.00	110,000.00	0.00%
					Increase (Decrease)	292,042.68			
General Fund: BINTF	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4207-51000	Salaries	63,723.38	31,528.53	32,194.85	50.52%				
010-4207-51002	Overtime	-	8,749.59	(8,749.59)	0.00%				
010-4207-51100	Workmans Comp.	4,484.66	1,667.47	2,817.19	62.82%				
010-4207-51200	Retirement	8,653.86	4,185.41	4,468.45	51.64%				
010-4207-51300	Health Insurance	11,134.34	2,134.87	8,999.47	80.83%	(6,000.00)	5,134.34	2,999.47	58.42%
010-4207-51400	Dental Insur.	510.75	255.36	255.39	50.00%				
010-4207-51800	Disability Insr	927.86	450.00	477.86	51.50%				
010-4207-51900	Medicare Tax	896.93	583.92	313.01	34.90%				
010-4207-51902	Social Security	-	10.61	(10.61)	0.00%				
010-4207-51903	EAP	108.25	23.45	84.80	78.34%				
010-4207-53600	Professional	15,000.00	-	15,000.00	100.00%	(15,000.00)	-	-	0.00%
					Increase (Decrease)	(21,000.00)			

General Fund: School Resource Officer		Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining Amended Percentage
010-4208-51000	Salaries	84,738.96	49,333.24	35,405.72	41.78%				
010-4208-51002	Overtime	-	4,516.44	(4,516.44)	0.00%				
010-4208-51100	Workmans Comp.	6,002.06	2,033.14	3,968.92	66.13%				
010-4208-51200	Retirement	11,581.91	5,933.17	5,648.74	48.77%				
010-4208-51300	Health Insurance	14,901.67	-	14,901.67	100.00%	(14,901.67)	-	-	0.00%
010-4208-51400	Dental Insur.	1,569.72	1,179.72	390.00	24.85%	750.00	2,319.72	1,140.00	49.14%
010-4208-51800	Disability Insurance	1,241.81	600.00	641.81	51.68%				
010-4208-51900	Medicare Tax	1,200.41	780.83	419.58	34.95%	200.00	1,400.41	619.58	44.24%
010-4208-51902	Social Security	-	10.40	(10.40)	0.00%				
010-4208-51903	Employee Assistance Program	105.00	31.33	73.67	70.16%				
					Increase (Decrease)	(13,951.67)			
General Fund: Fire		Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining Amended Percentage
010-4210-52100	Communications	3,000.00	769.73	2,230.27	74.34%				
010-4210-52400	Insurance	43,829.79	5,122.00	38,707.79	88.31%				
010-4210-53000	Equipment Mtnc.	34,000.00	4,452.92	29,547.08	86.90%	(14,000.00)	20,000.00	15,547.08	77.74%
010-4210-53500	Office	1,000.00	496.22	503.78	50.38%				
010-4210-53600	Professional	1,459,423.00	117,649.35	1,341,773.65	91.94%				
010-4210-53650	Information Technology	4,715.00	5,851.77	(1,136.77)	-24.11%	3,000.00	7,715.00	1,863.23	24.15%
010-4210-53800	Rents-Equipment	300.00	106.30	193.70	64.57%				
010-4210-53950	Small Tools	500.00	-	500.00	100.00%				
010-4210-53960	Fuel	12,000.00	1,574.87	10,425.13	86.88%				
010-4210-54000	Special Dept.	168,985.87	1,855.25	167,130.62	98.90%	(150,000.00)	18,985.87	17,130.62	90.23%
010-4210-54400	Utilities	4,000.00	829.27	3,170.73	79.27%	(1,500.00)	2,500.00	1,670.73	66.83%
010-4210-55901	Debt Svce - Int	-	95,282.85	(95,282.85)	0.00%	95,282.85	95,282.85	-	0.00%
010-4210-56300	Equipment	150,000.00	60,053.02	89,946.98	59.96%	60,053.02	210,053.02	150,000.00	71.41%
					Increase (Decrease)	(7,164.13)			

General Fund: Animal Control	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4230-51000	Salaries	75,603.84	24,776.93	50,826.91	67.23%	(20,000.00)	55,603.84	30,826.91	55.44%
010-4230-51002	Overtime	200.00	-	200.00	100.00%				
010-4230-51100	Workmans Comp.	5,383.26	630.39	4,752.87	88.29%				
010-4230-51200	Retirement	19,238.67	1,866.17	17,372.50	90.30%	(15,000.00)	4,238.67	2,372.50	55.97%
010-4230-51250	UAL - CALPERS	-	8,700.48	(8,700.48)	0.00%	8,700.48	8,700.48	-	0.00%
010-4230-51300	Health Insurance	13,365.35	3,220.00	10,145.35	75.91%	(5,000.00)	8,365.35	5,145.35	61.51%
010-4230-51310	Health Insuranc	-	130.00	(130.00)	0.00%	400.00	400.00	270.00	67.50%
010-4230-51400	Dental Insur.	2,359.44	1,249.94	1,109.50	47.02%	100.00	2,459.44	1,209.50	49.18%
010-4230-51800	Disability Insr	1,113.78	635.71	478.07	42.92%				
010-4230-51900	Medicare Tax	1,076.65	359.30	717.35	66.63%				
010-4230-51903	EAP	129.94	32.19	97.75	75.23%				
010-4230-51904	Physical Fitness	300.00	-	300.00	100.00%				
010-4230-51906	Deferred Comp ER Match	600.00	-	600.00	100.00%	(150.00)	450.00	450.00	100.00%
010-4230-52000	Safety Clothing	3,000.00	114.13	2,885.87	96.20%	(2,885.87)	114.13	0.00	0.00%
010-4230-52100	Communications	1,200.00	498.76	701.24	58.44%				
010-4230-52400	Insurance	2,147.95	-	2,147.95	100.00%				
010-4230-53000	Equipment Mtnc.	500.00	2,441.88	(1,941.88)	-388.38%	3,000.00	3,500.00	1,058.12	30.23%
010-4230-53200	Mtnce-Structure	2,500.00	-	2,500.00	100.00%		2,500.00	2,500.00	100.00%
010-4230-53300	Memberships	300.00	-	300.00	100.00%				
010-4230-53600	Professional	13,000.00	5,396.40	7,603.60	58.49%				
010-4230-54000	Special Dept.	3,000.00	3,279.00	(279.00)	-9.30%	4,000.00	7,000.00	3,721.00	53.16%
010-4230-54400	Utilities	1,500.00	52.30	1,447.70	96.51%	(1,000.00)	500.00	447.70	89.54%
					Increase (Decrease)	(27,835.39)			
General Fund: Streets	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4310-51000	Salaries	201,713.12	87,198.28	114,514.84	56.77%	(15,000.00)	186,713.12	99,514.84	53.30%
010-4310-51001	Extra Help	20,937.84	12,765.08	8,172.76	39.03%	(8,172.76)	12,765.08	-	0.00%
010-4310-51002	Overtime	15,000.00	13,373.51	1,626.49	10.84%	7,500.00	22,500.00	9,126.49	40.56%
010-4310-51100	Workmans Comp.	11,358.58	7,558.26	3,800.32	33.46%				
010-4310-51200	Retirement	20,275.67	9,108.95	11,166.72	55.07%				
010-4310-51250	UAL - CALPERS	50,108.10	47,952.52	2,155.58	4.30%	(2,155.58)	47,952.52	-	0.00%
010-4310-51300	Health Insuranc	28,200.61	14,328.19	13,872.42	49.19%				
010-4310-51310	Health Insuranc	-	396.48	(396.48)	0.00%	800.00	800.00	403.52	50.44%
010-4310-51400	Dental Insur.	4,168.16	1,658.00	2,510.16	60.22%	(450.00)	3,718.16	2,060.16	55.41%
010-4310-51800	Disability Insr	2,664.12	1,163.49	1,500.63	56.33%				
010-4310-51900	Medicare Tax	2,575.31	1,642.72	932.59	36.21%				
010-4310-51902	Social Security	-	751.50	(751.50)	0.00%				
010-4310-51903	EAP	274.17	89.03	185.14	67.53%				
010-4310-51904	Physical Fitness	939.00	-	939.00	100.00%				
010-4310-52400	Insurance	4,136.85	2,049.50	2,087.35	50.46%				
010-4310-53600	Professional	92,150.00	982.45	91,167.55	98.93%				
010-4310-53620	Engineering Costs	50,000.00	15,344.25	34,655.75	69.31%				
010-4310-53960	Fuel	2,000.00	9,190.99	(7,190.99)	-359.55%	16,000.00	18,000.00	8,809.01	48.94%
010-4310-54000	Special Dept.	460,000.00	405,706.37	54,293.63	11.80%	(15,000.00)	445,000.00	39,293.63	8.83%
					Increase (Decrease)	(16,478.34)			

General Fund: Engineering	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4320-53600	Professional	-	1,327.66	(1,327.66)	0.00%		3,000.00	3,000.00	1,672.34	55.74%
010-4320-53620	Engineering Costs	30,000.00	31,011.50	(1,011.50)	-3.37%		25,000.00	55,000.00	23,988.50	43.62%
						Increase (Decrease)	28,000.00			
General Fund: Corp Yard	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4340-51000	Salaries	60,039.46	30,217.89	29,821.57	49.67%					
010-4340-51002	Overtime	-	379.78	(379.78)	0.00%		825.00	825.00	445.22	53.97%
010-4340-51100	Workmans Comp.	4,352.86	3,127.03	1,225.83	28.16%		1,000.00	5,352.86	2,225.83	41.58%
010-4340-51200	Retirement	7,552.96	3,786.76	3,766.20	49.86%					
010-4340-51250	UAL - CALPERS	29,600.63	21,501.77	8,098.86	27.36%	(8,098.86)	21,501.77	-	0.00%	
010-4340-51300	Health Insurance	10,807.10	2,943.87	7,863.23	72.76%	(3,000.00)	7,807.10	4,863.23	62.29%	
010-4340-51310	Health Insuranc	-	130.00	(130.00)	0.00%		400.00	400.00	270.00	67.50%
010-4340-51400	Dental Insur.	1,149.58	606.95	542.63	47.20%					
010-4340-51800	Disability Insr	900.59	444.45	456.14	50.65%					
010-4340-51900	Medicare Tax	870.57	443.74	426.83	49.03%					
010-4340-51903	EAP	105.07	26.67	78.40	74.62%					
010-4340-51904	Physical fitnes	249.00	-	249.00	100.00%					
010-4340-52000	Safety Clothing	8,000.00	1,689.00	6,311.00	78.89%					
010-4340-52100	Communications	2,500.00	853.95	1,646.05	65.84%					
010-4340-52400	Insurance	76,220.22	2,049.50	74,170.72	97.31%					
010-4340-53000	Equipment Mtnc.	18,000.00	10,338.65	7,661.35	42.56%		3,000.00	21,000.00	10,661.35	50.77%
010-4340-53200	Mtnce-Structure	6,000.00	328.21	5,671.79	94.53%					
010-4340-53500	Office	1,500.00	177.60	1,322.40	88.16%	(500.00)	1,000.00	822.40	82.24%	
010-4340-53600	Professional	-	228.75	(228.75)	0.00%		500.00	500.00	271.25	54.25%
010-4340-53650	Information Technology	5,715.00	7,077.51	(1,362.51)	-23.84%		3,500.00	9,215.00	2,137.49	23.20%
010-4340-53950	Small Tools	1,000.00	273.50	726.50	72.65%					
010-4340-54000	Special Dept.	18,000.00	7,213.95	10,786.05	59.92%					
010-4340-54300	Transportation and Travel	4,000.00	2.66	3,997.34	99.93%					
010-4340-56300	Equipment	75,000.00	-	75,000.00	100.00%	(75,000.00)	-	-	#DIV/0!	
						Increase (Decrease)	(77,373.86)			

General Fund: Parks	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4350-51000	Salaries	83,648.15	36,527.29	47,120.86	56.33%					
010-4350-51001	Extra Help	20,937.84	-	20,937.84	100.00%			20,937.84	20,937.84	100.00%
010-4350-51002	Overtime	-	1,050.85	(1,050.85)	0.00%		2,000.00	2,000.00	949.15	47.46%
010-4350-51100	Workmans Comp.	6,034.91	2,440.77	3,594.14	59.56%					
010-4350-51200	Retirement	10,471.61	2,879.61	7,592.00	72.50%	(3,000.00)	7,471.61	4,592.00	61.46%	
010-4350-51250	UAL - CALPERS	35,052.21	30,665.47	4,386.74	12.51%	(4,386.74)	30,665.47	-	0.00%	
010-4350-51300	Health Insurance	14,983.23	4,319.22	10,664.01	71.17%	(4,000.00)	10,983.23	6,664.01	60.67%	
010-4350-51310	Health Insuranc	-	227.50	(227.50)	0.00%		500.00	500.00	272.50	54.50%
010-4350-51400	Dental Insur.	985.04	229.12	755.92	76.74%	(300.00)	685.04	455.92	66.55%	
010-4350-51800	Disability Insr	1,562.67	284.14	1,278.53	81.82%	(700.00)	862.67	578.53	67.06%	
010-4350-51900	Medicare Tax	1,510.58	543.77	966.81	64.00%					
010-4350-51903	EAP	145.67	20.07	125.60	86.22%					
010-4350-51904	Physical Fitness	360.00	-	360.00	100.00%					
010-4350-52000	Safety Clothing	1,500.00	354.69	1,145.31	76.35%					
010-4350-52400	Insurance	2,846.90	2,049.50	797.40	28.01%	1,000.00	3,846.90	1,797.40	46.72%	
010-4350-53000	Equipment Mtnc.	4,500.00	3,328.09	1,171.91	26.04%	1,500.00	6,000.00	2,671.91	44.53%	
010-4350-53200	Mtnce-Structure	500.00	-	500.00	100.00%					
010-4350-53600	Professional	500.00	2,903.00	(2,403.00)	-480.60%	10,000.00	10,500.00	7,597.00	72.35%	
010-4350-53620	Engineering Costs	10,000.00	-	10,000.00	100.00%					
010-4350-53950	Small Tools	500.00	-	500.00	100.00%					
010-4350-54000	Special Dept.	10,000.00	7,328.22	2,671.78	26.72%	3,000.00	13,000.00	5,671.78	43.63%	
010-4350-56100	Struct.&Improve	50,000.00	860.99	49,139.01	98.28%			50,000.00	49,139.01	98.28%
010-4350-56300	Equipment	35,000.00	-	35,000.00	100.00%	(35,000.00)	-	-	#DIV/0!	
					Increase (Decrease)	(29,386.74)				

General Fund: Recreation	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended	Amended
								Amount Remaining	Percentage
010-4360-51000	Salaries	63,641.82	56,205.28	7,436.54	11.68%	37,000.00	100,641.82	44,436.54	44.15%
010-4360-51002	Overtime	-	159.30	(159.30)	0.00%	500.00	500.00	340.70	68.14%
010-4360-51100	Workmans Comp.	4,466.93	1,381.55	3,085.38	69.07%	(1,500.00)	2,966.93	1,585.38	53.44%
010-4360-51200	Retirement	5,998.37	3,397.56	2,600.81	43.36%				
010-4360-51250	UAL - CALPERS	11,792.45	12,281.35	(488.90)	-4.15%	488.90	12,281.35	-	0.00%
010-4360-51300	Health Insurance	-	1,920.00	(1,920.00)	0.00%	3,800.00	3,800.00	1,880.00	49.47%
010-4360-51310	Health Insurance	-	162.50	(162.50)	0.00%	350.00	350.00	187.50	53.57%
010-4360-51400	Dental Insur.	1,569.72	831.58	738.14	47.02%				
010-4360-51800	Disability Insurance	924.19	635.71	288.48	31.21%				
010-4360-51900	Medicare Tax	893.39	817.28	76.11	8.52%	450.00	1,343.39	526.11	39.16%
010-4360-51902	Social Security	-	457.94	(457.94)	0.00%	1,200.00	1,200.00	742.06	61.84%
010-4360-51903	Employee Assistance Program	107.82	94.67	13.15	12.20%	50.00	157.82	63.15	40.01%
010-4360-51904	Physical fitness	300.00	-	300.00	100.00%	300.00	600.00	600.00	100.00%
010-4360-52100	Communications	2,400.00	1,187.89	1,212.11	50.50%				
010-4360-52400	Insurance	3,556.18	-	3,556.18	100.00%				
010-4360-53000	Equipment Mtnc.	1,500.00	655.44	844.56	56.30%				
010-4360-53300	Memberships	200.00	29.90	170.10	85.05%				
010-4360-53500	Office	2,000.00	1,897.87	102.13	5.11%	1,500.00	3,500.00	1,602.13	45.78%
010-4360-53600	Professional	15,000.00	10,336.47	4,663.53	31.09%	3,000.00	18,000.00	7,663.53	42.58%
010-4360-53650	Information Technology	4,715.00	6,078.02	(1,363.02)	-28.91%	3,000.00	7,715.00	1,636.98	21.22%
010-4360-53700	Publications	3,500.00	2,420.00	1,080.00	30.86%	250.00	3,750.00	1,330.00	35.47%
010-4360-54000	Special Dept.	32,000.00	29,188.06	2,811.94	8.79%				
010-4360-54010	Soccer League	20,000.00	38,989.49	(18,989.49)	-94.95%	18,989.49	38,989.49	-	0.00%
010-4360-54020	Basketball League	12,000.00	403.67	11,596.33	96.64%				
010-4360-54030	Senior Program	10,000.00	4,053.96	5,946.04	59.46%	(1,500.00)	8,500.00	4,446.04	52.31%
010-4360-54040	Recreation Programs	5,000.00	3,980.63	1,019.37	20.39%	1,500.00	6,500.00	2,519.37	38.76%
010-4360-54300	Trans. & Travel	1,050.00	-	1,050.00	100.00%	(1,050.00)	-	-	0.00%
010-4360-54400	Utilities	7,500.00	676.90	6,823.10	90.97%	(6,000.00)	1,500.00	823.10	54.87%
					Increase (Decrease)	62,328.39			
General Fund: Boat Ramp	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended	Amended
								Amount Remaining	Percentage
010-4480-54000	Special Dept.	3,000.00	1,200.00	1,800.00	60.00%				
010-4480-54400	Utilities	-	808.52	(808.52)	0.00%	1,750.00	1,750.00	941.48	53.80%
					Increase (Decrease)	1,750.00			

General Fund: Planning	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
010-4500-51000	Salaries	140,502.57	72,662.36	67,840.21	48.28%				
010-4500-51100	Workmans Comp.	9,309.80	292.70	9,017.10	96.86%	(3,500.00)	5,809.80	5,517.10	94.96%
010-4500-51200	Retirement	10,893.20	5,658.36	5,234.84	48.06%				
010-4500-51250	UAL - CALPERS	14,824.21	16,640.89	(1,816.68)	-12.25%	1,816.68	16,640.89	-	0.00%
010-4500-51300	Health Insurance	22,066.59	2,385.06	19,681.53	89.19%	(17,000.00)	5,066.59	2,681.53	52.93%
010-4500-51310	Health Insuranc	-	97.50	(97.50)	0.00%	150.00	150.00	52.50	35.00%
010-4500-51400	Dental Insur.	1,786.87	490.67	1,296.20	72.54%	(450.00)	1,336.87	846.20	63.30%
010-4500-51800	Disability Insr	1,926.17	771.42	1,154.75	59.95%	(250.00)	1,676.17	904.75	53.98%
010-4500-51900	Medicare Tax	1,861.96	1,053.63	808.33	43.41%				
010-4500-51903	EAP	224.72	38.49	186.23	82.87%				
010-4500-51904	Physical Fitness	438.00	-	438.00	100.00%	162.00	600.00	600.00	100.00%
010-4500-52100	Communications	1,000.00	296.44	703.56	70.36%	(350.00)	650.00	353.56	54.39%
010-4500-52400	Insurance	1,272.01	-	1,272.01	100.00%				
010-4500-53000	Equipment Mtnc.	1,000.00	-	1,000.00	100.00%	(1,000.00)	-	-	0.00%
010-4500-53300	Memberships	1,500.00	2,257.93	(757.93)	-50.53%	757.93	2,257.93	-	0.00%
010-4500-53500	Office	3,800.00	1,633.49	2,166.51	57.01%				
010-4500-53600	Professional	60,000.00	29,998.45	30,001.55	50.00%	8,500.00	68,500.00	38,501.55	56.21%
010-4500-53620	Engineering Costs	20,000.00	51,934.37	(31,934.37)	-159.67%	50,000.00	70,000.00	18,065.63	25.81%
010-4500-53700	Publications	6,000.00	708.50	5,291.50	88.19%	(3,500.00)	2,500.00	1,791.50	71.66%
010-4500-53800	Rents-Equipment	500.00	106.30	393.70	78.74%				
010-4500-54300	Trans. & Travel	3,000.00	739.87	2,260.13	75.34%				
					Increase (Decrease)	35,336.61			
Fund: 010 - General Total:		9,657,647.54	4,584,148.95	5,073,498.59	52.53%				
					Overall 010 Increase(Decrease)	279,778.24			
Fund: 208 - 2022 Series A Tax Allocation Ref Bond	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
208-4250-55901	Debt svce - int	-	117,035.00	(117,035.00)	0.00%	119,904.00	119,904.00	2,869.00	2.39%
Fund: 208 - 2022 Series A Tax Allocation Ref Bond Total:				59,438.00	(59,438.00)	0.00%			
					Overall 208 Increase(Decrease)	119,904.00			
Fund: 210 - 2022 Series B Tax Allocation Ref Bond	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
210-4250-55901	Debt svce - int	-	59,904.00	(59,904.00)	0.00%	187,035.00	187,035.00	127,131.00	67.97%
Fund: 210 - 2022 Series B Tax Allocation Ref Bond Total:				30,528.00	(30,528.00)	0.00%			
					Overall 210 Increase(Decrease)	187,035.00			

Fund: 215 - Successor Agency	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
215-4250-51000	Salaries	114.84	41.55	73.29	63.82%					
215-4250-51100	Workmans Comp.	225.67	0.20	225.47	99.91%		(200.00)	25.67	25.47	99.22%
215-4250-51200	Retirement	247.76	3.27	244.49	98.68%		(200.00)	47.76	44.49	93.15%
215-4250-51250	UAL - CALPERS	585.24	627.82	(42.58)	-7.28%		42.58	627.82	-	0.00%
215-4250-51300	Health Insurance	-	4.00	(4.00)	0.00%		10.00	10.00	6.00	60.00%
215-4250-51310	Health Insuranc	560.27	-	560.27	100.00%		(560.27)	-	-	0.00%
215-4250-51400	Dental Insur.	94.38	2.81	91.57	97.02%					
215-4250-51800	Disability Insr	46.69	1.43	45.26	96.94%					
215-4250-51900	Medicare Tax	45.13	0.60	44.53	98.67%					
215-4250-51903	EAP	5.45	0.03	5.42	99.45%					
215-4250-53600	Professional	30,000.00	26,757.50	3,242.50	10.81%					
<b>Fund: 215 - Successor Agency Total:</b>		<b>31,925.43</b>	<b>10,439.21</b>	<b>21,486.22</b>	<b>67.30%</b>	<b>Overall 215 Increase(Decrease)</b>	<b>(907.69)</b>			
Fund: 380 - State Gas Tax	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
380-4420-51000	Salaries	56,052.98	28,873.93	27,179.05	48.49%					
380-4420-51002	Overtime	5,000.00	2,856.64	2,143.36	42.87%					
380-4420-51100	Workmans Comp.	4,063.84	2,513.98	1,549.86	38.14%					
380-4420-51200	Retirement	6,816.80	3,433.91	3,382.89	49.63%					
380-4420-51250	UAL - CALPERS	71,732.76	19,488.64	52,244.12	72.83%		(52,244.12)	19,488.64	-	0.00%
380-4420-51300	Health Insurance	9,958.61	5,488.30	4,470.31	44.89%					
380-4420-51400	Dental Insur.	1,122.95	586.99	535.96	47.73%					
380-4420-51800	Disability Insr	840.79	406.23	434.56	51.68%					
380-4420-51900	Medicare Tax	812.77	459.98	352.79	43.41%					
380-4420-51903	EAP	98.09	(36.72)	134.81	137.44%					
380-4420-51904	Physical Fitness	237.00	-	237.00	100.00%		(238.00)	(1.00)	(1.00)	100.00%
380-4420-52100	Communications	2,000.00	-	2,000.00	100.00%		(2,000.00)	-	-	0.00%
380-4420-52400	Insurance	3,777.83	-	3,777.83	100.00%					
380-4420-53000	Equipment Maintenance			-	#DIV/0!		8,000.00	8,000.00	8,000.00	0.00%
380-4420-54000	Special Department			-	#DIV/0!		4,000.00	4,000.00	4,000.00	0.00%
<b>Fund: 380 - State Gas Tax Total:</b>		<b>162,514.42</b>	<b>62,404.27</b>	<b>100,110.15</b>	<b>61.60%</b>	<b>Overall 380 Increase(Decrease)</b>	<b>(42,482.12)</b>			
Fund: 430 - SB 325 TDA	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
430-4430-51000	Salaries	16,216.83	7,902.77	8,314.06	51.27%					
430-4430-51002	Overtime	-	794.10	(794.10)	0.00%		1,400.00	1,400.00	605.90	43.28%
430-4430-51100	Workmans Comp.	1,175.72	57.82	1,117.90	95.08%					
430-4430-51200	Retirement	1,290.86	579.43	711.43	55.11%					
430-4430-51250	UAL - CALPERS	10,819.86	12,955.38	(2,135.52)	-19.74%		2,135.52	12,955.38	-	0.00%
430-4430-51300	Health Insurance	2,919.03	625.87	2,293.16	78.56%		(1,700.00)	1,219.03	593.16	48.66%
430-4430-51400	Dental Insur.	190.68	82.87	107.81	56.54%					
430-4430-51800	Disability Insr	243.25	155.77	87.48	35.96%					
430-4430-51900	Medicare Tax	235.14	119.72	115.42	49.09%					
430-4430-51903	EAP	28.38	8.90	19.48	68.64%					
430-4432-51250	UAL - CALPERS	3,027.60	-	3,027.60	100.00%		(3,027.60)	-	-	0.00%
430-4432-52400	Insurance	542.75	-	542.75	100.00%					
430-4433-51250	UAL - CALPERS	65.42	-	65.42	100.00%		(65.42)	-	-	0.00%
<b>Fund: 430 - SB 325 TDA Total:</b>		<b>36,755.52</b>	<b>21,828.59</b>	<b>14,926.93</b>	<b>40.61%</b>	<b>Overall 430 Increase(Decrease)</b>	<b>(1,257.50)</b>			

Fund: 440 - Traffic Safety	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
440-4441-54400	Utilities	-	200.52	(200.52)	0.00%		500.00	500.00	299.48	59.90%
<b>Fund: 440 - Traffic Safety Total:</b>			<b>200.52</b>	<b>(200.52)</b>	<b>0.00%</b>					
				<b>Overall 440 Increase(Decrease)</b>			<b>500.00</b>			
Fund: 513 - CDBG PROGRAM IN	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
513-4801-51000	Salaries	4,273.55	2,100.70	2,172.85	50.84%					
513-4801-51002	Overtime	-	4.50	(4.50)	0.00%					
513-4801-51100	Workmans Comp.	309.83	9.54	300.29	96.92%					
513-4801-51200	Retirement	296.98	140.75	156.23	52.61%					
513-4801-51250	UAL - CALPERS	1,023.98	825.89	198.09	19.35%					
513-4801-51400	Dental Insur.	78.58	41.58	37.00	47.09%					
513-4801-51800	Disability Insr	64.10	38.16	25.94	40.47%					
513-4801-51900	Medicare Tax	61.97	30.46	31.51	50.85%					
513-4801-51903	EAP	7.48	1.81	5.67	75.80%					
513-4801-51904	Physical Fitness	18.00	-	18.00	100.00%					
<b>Fund: 513 - CDBG PROGRAM IN Total:</b>		<b>6,134.47</b>	<b>3,014.43</b>	<b>3,120.04</b>	<b>50.86%</b>					
Fund: 580 - Flood Maint #1 - Richins	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
580-4580-51000	Salaries	-	664.20	(664.20)	0.00%		1,300.00	1,300.00	635.80	48.91%
580-4580-51100	Workmans Comp	-	18.13	(18.13)	0.00%		40.00	40.00	21.87	54.68%
580-4580-51900	Medicare Tax	-	9.63	(9.63)	0.00%		25.00	25.00	15.37	61.48%
580-4580-51902	Social Security	-	41.18	(41.18)	0.00%		100.00	100.00	58.82	58.82%
580-4580-51903	EAP	-	0.99	(0.99)	0.00%		50.00	50.00	49.01	98.02%
<b>Fund: 580 - Flood Maint #1 - Richins Total:</b>		-	<b>734.13</b>	<b>(734.13)</b>	<b>0.00%</b>					
				<b>Overall 580 Increase(Decrease)</b>			<b>1,515.00</b>			

Fund: 581 - Flood Maint #2 - Eagle Meadows	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
581-4581-51000	Salaries	-	9,640.61	(9,640.61)	0.00%		15,000.00	15,000.00	5,359.39	35.73%
581-4581-51100	Workmans Comp.	-	91.21	(91.21)	0.00%		200.00	200.00	108.79	54.40%
581-4581-51200	Retirement	-	497.79	(497.79)	0.00%		900.00	900.00	402.21	44.69%
581-4581-51250	UAL - CALPERS	3,170.98	3,292.34	(121.36)	-3.83%		121.36	3,292.34	-	0.00%
581-4581-51300	Health Insurance	-	645.42	(645.42)	0.00%		1,200.00	1,200.00	554.58	46.22%
581-4581-51400	Dental Insur.	-	86.47	(86.47)	0.00%		150.00	150.00	63.53	42.35%
581-4581-51800	Disability Insr	-	152.38	(152.38)	0.00%		330.00	330.00	177.62	53.82%
581-4581-51900	Medicare Tax	-	139.80	(139.80)	0.00%		300.00	300.00	160.20	53.40%
581-4581-51902	Social Security	-	215.88	(215.88)	0.00%		450.00	450.00	234.12	52.03%
581-4581-51903	EAP	-	12.32	(12.32)	0.00%		40.00	40.00	27.68	69.20%
581-4581-52400	Insurance	1,028.92	-	1,028.92	100.00%		(1,028.92)	-	-	0.00%
581-4581-53000	Equipment Mtnc.	1,500.00	-	1,500.00	100.00%		(1,500.00)	-	-	0.00%
581-4581-53950	Small Tools	500.00	-	500.00	100.00%		(500.00)	-	-	0.00%
581-4581-54000	Special Dept.	3,000.00	-	3,000.00	100.00%		(3,000.00)	-	-	0.00%
<b>Fund: 581 - Flood Maint #2 - Eagle Meadows Total:</b>		<b>9,199.90</b>	<b>14,407.18</b>	<b>(5,207.28)</b>	<b>-56.60%</b>					
					<b>Overall 581 Increase(Decrease)</b>		<b>12,662.44</b>			
Fund: 582 - Flood Maint #3 - Heron Landing	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
582-4582-51000	Salaries	-	7,770.91	(7,770.91)	0.00%		15,000.00	15,000.00	7,229.09	48.19%
582-4582-51100	Workmans Comp.	-	101.92	(101.92)	0.00%		200.00	200.00	98.08	49.04%
582-4582-51200	Retirement	-	318.60	(318.60)	0.00%		600.00	600.00	281.40	46.90%
582-4582-51250	UAL - CALPERS	3,471.27	3,275.29	195.98	5.65%		(195.98)	3,275.29	-	0.00%
582-4582-51300	Health Insurance	-	415.28	(415.28)	0.00%		750.00	750.00	334.72	44.63%
582-4582-51400	Dental Insr.	-	48.60	(48.60)	0.00%		100.00	100.00	51.40	51.40%
582-4582-51800	Disability Insr	-	85.61	(85.61)	0.00%		150.00	150.00	64.39	42.93%
582-4582-51900	Medicare Tax	-	112.70	(112.70)	0.00%		220.00	220.00	107.30	48.77%
582-4582-51902	Social Security	-	245.84	(245.84)	0.00%		500.00	500.00	254.16	50.83%
582-4582-51903	EAP	-	10.74	(10.74)	0.00%		30.00	30.00	19.26	64.20%
582-4582-52400	Insurance	599.78	-	599.78	100.00%		(599.78)	-	-	0.00%
582-4582-53000	Equipment Mtnc.	1,500.00	-	1,500.00	100.00%		(1,500.00)	-	-	0.00%
582-4582-53950	Small Tools	500.00	-	500.00	100.00%		(500.00)	-	-	0.00%
582-4582-54000	Special Dept.	2,500.00	52.75	2,447.25	97.89%		(2,400.00)	100.00	47.25	47.25%
<b>Fund: 582 - Flood Maint #3 - Heron Landing Total:</b>		<b>8,571.05</b>	<b>12,107.92</b>	<b>(3,536.87)</b>	<b>-41.27%</b>					
					<b>Overall 582 Increase(Decrease)</b>		<b>12,354.24</b>			

Fund: 600 - Electric Utilit	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
600-0000-52760	Transfers Out	2,700,000.00	2,700,000.00	-	0.00%				
600-4600-51000	Salaries	1,029,653.48	553,715.12	475,938.36	46.22%	150,000.00	1,179,653.48	625,938.36	53.06%
600-4600-51002	Overtime	100,000.00	70,505.18	29,494.82	29.49%	50,000.00	150,000.00	79,494.82	53.00%
600-4600-51100	Workmans Comp.	72,230.06	12,791.52	59,438.54	82.29%				
600-4600-51200	Retirement	94,081.87	41,026.66	53,055.21	56.39%				
600-4600-51250	UAL - CALPERS	294,855.97	279,937.59	14,918.38	5.06%	(14,918.38)	279,937.59	-	0.00%
600-4600-51300	Health Insuranc	149,340.35	44,061.54	105,278.81	70.50%	(50,000.00)	99,340.35	55,278.81	55.65%
600-4600-51310	Health Insuranc	-	877.50	(877.50)	0.00%	2,000.00	2,000.00	1,122.50	56.13%
600-4600-51311	Retiree Health	26,308.76	41,202.75	(14,893.99)	-56.61%	14,893.99	41,202.75	-	0.00%
600-4600-51400	Dental Insur.	16,369.68	8,499.74	7,869.94	48.08%				
600-4600-51800	Disability Insr	16,705.12	5,072.70	11,632.42	69.63%	(5,000.00)	11,705.12	6,632.42	56.66%
600-4600-51900	Medicare Tax	12,685.05	9,050.98	3,634.07	28.65%	3,000.00	15,685.05	6,634.07	42.30%
600-4600-51902	Social Security	-	88.83	(88.83)	0.00%	500.00	500.00	411.17	82.23%
600-4600-51903	EAP	1,743.48	239.78	1,503.70	86.25%	(1,000.00)	743.48	503.70	67.75%
600-4600-51904	Physical fitnes	2,151.00	-	2,151.00	100.00%				
600-4600-52000	Safety Clothing	15,000.00	7,965.71	7,034.29	46.90%	3,000.00	18,000.00	10,034.29	55.75%
600-4600-52100	Communications	2,000.00	1,003.98	996.02	49.80%				
600-4600-52300	Household Exp.	1,000.00	-	1,000.00	100.00%	(1,000.00)	-	-	#DIV/0!
600-4600-52400	Insurance	103,561.76	9,234.00	94,327.76	91.08%				
600-4600-53000	Equipment Mtnc.	40,000.00	26,906.22	13,093.78	32.73%	5,000.00	45,000.00	18,093.78	40.21%
600-4600-53300	Memberships	7,500.00	648.30	6,851.70	91.36%	(2,500.00)	5,000.00	4,351.70	87.03%
600-4600-53500	Office	9,000.00	3,592.76	5,407.24	60.08%	1,000.00	10,000.00	6,407.24	64.07%
600-4600-53600	Professional	175,759.00	43,363.20	132,395.80	75.33%	1,700.00	177,459.00	134,095.80	75.56%
600-4600-53620	Engineering Costs	500.00	2,116.25	(1,616.25)	-323.25%	8,000.00	8,500.00	6,383.75	75.10%
600-4600-53650	Information Technology	7,215.00	7,701.89	(486.89)	-6.75%	3,500.00	10,715.00	3,013.11	28.12%
600-4600-53700	Publications	1,500.00	-	1,500.00	100.00%		1,500.00	1,500.00	100.00%
600-4600-53800	Rents-Equipment	1,000.00	1,215.38	(215.38)	-21.54%	1,500.00	2,500.00	1,284.62	51.38%
600-4600-53950	Small Tools	12,360.00	4,164.84	8,195.16	66.30%				
600-4600-53960	Fuel	19,570.00	7,286.38	12,283.62	62.77%				
600-4600-54000	Special Dept.	82,400.00	32,712.40	49,687.60	60.30%				
600-4600-54101	Power Purchase	4,100,000.00	1,932,805.00	2,167,195.00	52.86%	(225,000.00)	3,875,000.00	1,942,195.00	50.12%
600-4600-54300	Trans. & Travel	9,270.00	3,340.33	5,929.67	63.97%	2,000.00	11,270.00	7,929.67	70.36%
600-4600-54400	Utilities	3,000.00	676.80	2,323.20	77.44%				
600-4600-55350	Taxes/Fees	9,500.00	9,717.54	(217.54)	-2.29%	217.54	9,717.54	-	0.00%
600-4600-56100	Struct.&Improve	325,000.00	11,646.34	313,353.66					
					96.42%		325,000.00	313,353.66	96.42%
600-4600-56300	Equipment	1,142.75	-	1,142.75	100.00%	(1,142.75)	-	-	#DIV/0!
600-4608-56100	Struct.&Improve	25,000.00	-	25,000.00	100.00%	(25,000.00)	-	-	#DIV/0!
<b>Fund: 600 - Electric Utilit Total:</b>		<b>9,467,403.33</b>	<b>3,097,216.86</b>	<b>6,370,186.47</b>	<b>67.29%</b>	<b>Overall 600 Increase(Decrease)</b>	<b>(79,249.60)</b>		

Fund: 610 - Public Benefits	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
610-4610-51000	Salaries	12,820.66	6,302.17	6,518.49	50.84%				
610-4610-51002	Overtime	-	13.50	(13.50)	0.00%	50.00	50.00	36.50	73.00%
610-4610-51100	Workmans Comp.	929.50	28.72	900.78	96.91%				
610-4610-51200	Retirement	890.94	422.23	468.71	52.61%				
610-4610-51250	UAL - CALPERS	3,073.02	2,480.05	592.97	19.30%	(592.97)	2,480.05	-	0.00%
610-4610-51400	Dental Insur.	235.75	124.84	110.91	47.05%				
610-4610-51800	Disability Insr	192.31	114.45	77.86	40.49%				
610-4610-51900	Medicare Tax	185.90	91.57	94.33	50.74%				
610-4610-51903	EAP	22.44	5.63	16.81	74.91%				
610-4610-51904	Physical Fitness	96.00	-	96.00	100.00%	(96.00)	-	-	0.00%
610-4610-56100	Struct.&Improve	-	-	-	0.00%	25,000.00	25,000.00	25,000.00	100.00%
610-4610-54000	Special Dept.	40,000.00	17,921.59	22,078.41	55.20%				
<b>Fund: 610 - Public Benefits Total:</b>		<b>58,446.52</b>	<b>26,967.78</b>	<b>31,478.74</b>	<b>53.86%</b>				
				Overall 610 Increase(Decrease)		24,361.03			

Fund: 630 - Water Utility	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
630-0000-52760	Transfers Out	200,000.00	200,000.00	-	0.00%					
630-4630-51000	Salaries	382,707.76	189,678.72	193,029.04	50.44%					
630-4630-51001	Extra Help	20,937.84	-	20,937.84	100.00%	(20,937.84)	-	-		#DIV/0!
630-4630-51002	Overtime	21,000.00	10,985.07	10,014.93	47.69%					
630-4630-51100	Workmans Comp.	25,269.80	7,725.27	17,544.53	69.43%					
630-4630-51200	Retirement	38,948.18	17,349.49	21,598.69	55.45%					
630-4630-51250	UAL - CALPERS	102,919.17	113,524.64	(10,605.47)	-10.30%	10,605.47	113,524.64	-	0.00%	
630-4630-51300	Health Insuranc	46,597.91	17,470.18	29,127.73	62.51%	(10,605.47)	35,992.44	18,522.26	51.46%	
630-4630-51310	Health Insuranc	-	481.00	(481.00)	0.00%	1,000.00	1,000.00	519.00	51.90%	
630-4630-51311	Retiree Health	26,308.76	29,196.59	(2,887.83)	-10.98%	2,887.83	29,196.59	-	0.00%	
630-4630-51400	Dental Insur.	7,877.61	3,482.87	4,394.74	55.79%					
630-4630-51800	Disability Insr	5,542.30	2,383.17	3,159.13	57.00%					
630-4630-51900	Medicare Tax	5,357.56	2,910.09	2,447.47	45.68%					
630-4630-51902	Social Security	-	88.83	(88.83)	0.00%					
630-4630-51903	EAP	609.96	122.44	487.52	79.93%					
630-4630-51904	Physical Fitness	1,420.50	-	1,420.50	100.00%					
630-4630-52000	Safety Clothing	2,000.00	430.91	1,569.09	78.45%					
630-4630-52100	Communications	1,000.00	385.06	614.94	61.49%					
630-4630-52400	Insurance	24,936.50	2,049.50	22,887.00	91.78%					
630-4630-53000	Equipment Mtnc.	20,000.00	6,914.28	13,085.72	65.43%		20,000.00	13,085.72	65.43%	
630-4630-53300	Memberships	2,000.00	1,272.43	727.57	36.38%	1,500.00	3,500.00	2,227.57	63.64%	
630-4630-53500	Office	3,000.00	3,806.41	(806.41)	-26.88%	4,500.00	7,500.00	3,693.59	49.25%	
630-4630-53600	Professional	18,709.00	5,460.21	13,248.79	70.82%	(6,500.00)	12,209.00	6,748.79	55.28%	
630-4630-53620	Engineering Costs	10,000.00	16,987.75	(6,987.75)	-69.88%	15,000.00	25,000.00	8,012.25	32.05%	
630-4630-53650	Information Technology	6,215.00	7,025.33	(810.33)	-13.04%	1,500.00	7,715.00	689.67	8.94%	
630-4630-53950	Small Tools	2,500.00	-	2,500.00	100.00%		2,500.00	2,500.00	100.00%	
630-4630-53960	Fuel	6,500.00	8,958.03	(2,458.03)	-37.82%	8,500.00	15,000.00	6,041.97	40.28%	
630-4630-53975	Testing and Lab	20,000.00	3,748.00	16,252.00	81.26%		20,000.00	16,252.00	81.26%	
630-4630-54000	Special Dept.	107,232.00	100,062.54	7,169.46	6.69%	20,000.00	127,232.00	27,169.46	21.35%	
630-4630-54300	Trans. & Travel	2,000.00	2.67	1,997.33	99.87%					
630-4630-54400	Utilities	500.00	544.13	(44.13)	-8.83%	750.00	1,250.00	705.87	56.47%	
630-4630-54650	Taxes/Permits	-	8,543.32	(8,543.32)	0.00%	8,543.32	8,543.32	-	0.00%	
630-4630-56100	Struct.&Improve	-	6,733.07	(6,733.07)	0.00%	6,733.07	6,733.07	-	0.00%	
630-4630-56300	Equipment	1,142.85	-	1,142.85	100.00%	20,000.00	21,142.85	21,142.85	100.00%	
<b>Fund: 630 - Water Utility Total:</b>		<b>1,113,232.70</b>	<b>514,864.71</b>	<b>598,367.99</b>	<b>53.75%</b>					
						<b>Overall 630 Increase(Decrease)</b>	<b>63,476.38</b>			

Fund: 650 - Sewer Utility	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining		Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
<b>Sewer Operating</b>										
650-4650-51000	Salaries	246,647.75	120,490.73	126,157.02	51.15%					
650-4650-51002	Overtime	-	329.83	(329.83)	0.00%		700.00	700.00	370.17	52.88%
650-4650-51100	Workmans Comp.	15,734.25	1,276.04	14,458.21	91.89%					
650-4650-51200	Retirement	24,222.59	9,628.17	14,594.42	60.25%		(3,500.00)	20,722.59	11,094.42	53.54%
650-4650-51250	UAL - CALPERS	51,412.71	56,893.68	(5,480.97)	-10.66%		5,480.97	56,893.68	-	0.00%
650-4650-51300	Health Insuranc	24,473.55	5,944.43	18,529.12	75.71%		(10,500.00)	13,973.55	8,029.12	57.46%
650-4650-51400	Dental Insur.	5,226.44	2,182.25	3,044.19	58.25%					
650-4650-51800	Disability Insr	3,255.36	1,430.39	1,824.97	56.06%					
650-4650-51900	Medicare Tax	3,450.45	1,751.26	1,699.19	49.25%					
650-4650-51902	Social Security	-	88.81	(88.81)	0.00%		200.00	200.00	111.19	55.60%
650-4650-51903	EAP	458.16	76.20	381.96	83.37%					
650-4650-53650	Information Technology	6,215.00	7,129.00	(914.00)	-14.71%		2,000.00	8,215.00	1,086.00	13.22%
650-4650-53960	Fuel	1,500.00	8,958.05	(7,458.05)	-497.20%		16,000.00	17,500.00	8,541.95	48.81%
650-4650-54000	Special Dept.	-	10,928.94	(10,928.94)	0.00%		20,000.00	20,000.00	9,071.06	45.36%
650-4650-55900	Debt svce-prin	98,000.00	-	98,000.00	100.00%					
650-4650-55901	Debt svce - int	78,695.00	38,622.50	40,072.50	50.92%					
650-4650-56100	Struct. & Improve	1,142.85	-	1,142.85	100.00%		(1,142.85)	-	-	0.00%
				<b>Overall 650 Increase(Decrease)</b>			<b>29,238.12</b>			

Sewer Plant								Amended Amount Remaining	Amended Percentage
							Increase (Decrease)	Amended Budget	
650-4651-51000	Salaries	117,962.20	49,772.99	68,189.21	57.81%	(15,000.00)	102,962.20	53,189.21	51.66%
650-4651-51002	Overtime	20,000.00	10,188.47	9,811.53	49.06%				
650-4651-51100	Workmans Comp.	8,031.66	6,128.13	1,903.53	23.70%				
650-4651-51200	Retirement	16,066.99	6,127.42	9,939.57	61.86%	(3,000.00)	13,066.99	6,939.57	53.11%
650-4651-51250	UAL - CALPERS	34,933.03	41,773.58	(6,840.55)	-19.58%	6,840.55	41,773.58	-	0.00%
650-4651-51300	Health Insuranc	19,940.66	9,224.27	10,716.39	53.74%				
650-4651-51310	Health Insuranc	-	143.00	(143.00)	0.00%	350.00	350.00	207.00	59.14%
650-4651-51311	Retiree Health	15,227.86	13,175.36	2,052.50	13.48%	(2,052.50)	13,175.36	-	0.00%
650-4651-51400	Dental Insur.	2,666.17	1,048.34	1,617.83	60.68%				
650-4651-51800	Disability Insr	1,661.72	647.70	1,014.02	61.02%	(300.00)	1,361.72	714.02	52.44%
650-4651-51900	Medicare Tax	1,606.33	869.55	736.78	45.87%				
650-4651-51903	EAP	193.87	28.28	165.59	85.41%				
650-4651-51904	Physical Fitness	405.00	-	405.00	100.00%				
650-4651-52000	Safety Clothing	2,500.00	133.73	2,366.27	94.65%				
650-4651-52100	Communications	4,000.00	2,017.09	1,982.91	49.57%				
650-4651-52400	Insurance	33,992.02	2,049.50	31,942.52	93.97%				
650-4651-53000	Equipment Mtnc.	20,000.00	18,575.26	1,424.74	7.12%	8,500.00	28,500.00	9,924.74	34.82%
650-4651-53200	Mtnce-Structure	5,000.00	-	5,000.00	100.00%	(2,500.00)	2,500.00	2,500.00	100.00%
650-4651-53500	Office	2,000.00	2,388.09	(388.09)	-19.40%	3,000.00	5,000.00	2,611.91	52.24%
650-4651-53600	Professional	18,709.00	1,651.19	17,057.81	91.17%				
650-4651-53620	Engineering Costs	3,500.00	726.00	2,774.00	79.26%				
650-4651-53950	Small Tools	500.00	32.16	467.84	93.57%				
650-4651-53975	Testing and Lab	10,000.00	4,241.00	5,759.00	57.59%				
650-4651-54000	Special Dept.	12,000.00	5,468.99	6,531.01	54.43%				
650-4651-54300	Trans. & Travel	2,000.00	2.67	1,997.33	99.87%				
650-4651-54400	Utilities	-	40,611.80	(40,611.80)	0.00%	80,000.00	80,000.00	39,388.20	49.24%
650-4651-54650	Taxes/Permits	-	33,594.00	(33,594.00)	0.00%	33,594.00	33,594.00	-	0.00%
650-4651-56100	Struct.&Improve	65,000.00	-	65,000.00	100.00%	(65,000.00)	-	-	0.00%
650-4651-56300	Equipment	20,000.00	-	20,000.00	100.00%				
					Overall 650 Increase(Decrease)	44,432.05			

Sewer Town							Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
650-4652-51000	Salaries	188,232.58	93,383.74	94,848.84	50.39%					
650-4652-51001	Extra Help	20,937.84	-	20,937.84	100.00%	(20,937.84)	-	-		0.00%
650-4652-51002	Overtime	28,000.00	14,209.33	13,790.67	49.25%					
650-4652-51100	Workmans Comp.	13,483.60	5,129.72	8,353.88	61.96%					
650-4652-51200	Retirement	17,468.11	8,314.17	9,153.94	52.40%					
650-4652-51250	UAL - CALPERS	54,497.78	60,291.57	(5,793.79)	-10.63%	5,793.79	60,291.57	-		0.00%
650-4652-51300	Health Insuranc	25,415.88	12,049.28	13,366.60	52.59%					
650-4652-51310	Health Insuranc	-	279.52	(279.52)	0.00%	500.00	500.00	220.48	44.10%	
650-4652-51400	Dental Insur.	2,974.19	1,420.27	1,553.92	52.25%					
650-4652-51800	Disability Insr	3,103.78	1,277.92	1,825.86	58.83%					
650-4652-51900	Medicare Tax	2,696.72	1,559.83	1,136.89	42.16%					
650-4652-51903	EAP	247.10	72.26	174.84	70.76%					
650-4652-51904	Physical Fitness	601.50	-	601.50	100.00%					
650-4652-52000	Safety Clothing	1,500.00	-	1,500.00	100.00%					
650-4652-52100	Communications	500.00	156.13	343.87	68.77%					
650-4652-52400	Insurance	31,367.26	2,049.50	29,317.76	93.47%					
650-4652-53000	Equipment Mtnc.	20,000.00	10,121.49	9,878.51	49.39%					
650-4652-53500	Office	2,000.00	2,492.77	(492.77)	-24.64%	3,000.00	5,000.00	2,507.23	50.14%	
650-4652-53600	Professional	18,000.00	5,406.58	12,593.42	69.96%	(4,300.00)	13,700.00	8,293.42	60.54%	
650-4652-53620	Engineering Costs	5,000.00	3,397.50	1,602.50	32.05%					
650-4652-53950	Small Tools	500.00	-	500.00	100.00%					
650-4652-54000	Special Dept.	15,000.00	8,223.84	6,776.16	45.17%					
650-4652-56100	Structures and Improvement	-	-	-	0.00%	40,000.00	40,000.00	40,000.00	100.00%	
650-4652-54400	Utilities	-	967.94	(967.94)	0.00%	2,000.00	2,000.00	1,032.06	51.60%	
650-4658-54400	Utilities	-	98.05	(98.05)	0.00%	200.00	200.00	101.95	50.98%	
<b>Fund: 650 - Sewer Utility Total:</b>		<b>1,449,856.96</b>	<b>713,019.05</b>	<b>736,837.91</b>	<b>50.82% (Decrease)</b>	<b>26,255.95</b>				
					<b>Overall Sewer Increase(Decrease)</b>	<b>99,926.12</b>				
<b>Fund: 672 - COPS GRANTS</b>	<b>Account Name</b>	<b>Current Total Budget</b>	<b>Fiscal Activity</b>	<b>Amount Remaining</b>	<b>Percent Remaining</b>					
672-0000-52760	Transfers Out	130,000.00	130,000.00	-	0.00%					
<b>Fund: 672 - COPS GRANTS Total:</b>		<b>130,000.00</b>	-	<b>130,000.00</b>	<b>100.00%</b>					

Fund: 700 - SB325-Senr Taxi	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
700-4700-51000	Salaries	75,973.91	37,782.27	38,191.64	50.27%	(38,191.64)	37,782.27	-	0.00%
700-4700-51001	Extra Help	30,410.83	19,251.21	11,159.62	36.70%	15,000.00	45,410.83	26,159.62	57.61%
700-4700-51002	Overtime	100.00	-	100.00	100.00%	(100.00)	-	-	0.00%
700-4700-51100	Workmans Comp.	7,712.89	854.66	6,858.23	88.92%				
700-4700-51200	Retirement	9,557.52	1,651.60	7,905.92	82.72%	(7,000.92)	2,556.60	905.00	35.40%
700-4700-51250	UAL - CALPERS	28,219.18	28,848.71	(629.53)	-2.23%	629.53	28,848.71	-	0.00%
700-4700-51300	Health Insurance	13,675.30	3,597.67	10,077.63	73.69%	(10,077.63)	3,597.67	-	0.00%
700-4700-51310	Health Insuranc	-	65.00	(65.00)	0.00%	65.00	65.00	-	0.00%
700-4700-51400	Dental Insur.	681.00	77.02	603.98	88.69%	(603.98)	77.02	-	0.00%
700-4700-51800	Disability Insr	1,139.61	118.38	1,021.23	89.61%				
700-4700-51900	Medicare Tax	1,542.58	826.97	715.61	46.39%				
700-4700-51902	Social Security	-	1,224.67	(1,224.67)	0.00%	3,500.00	3,500.00	2,275.33	65.01%
700-4700-51903	EAP	186.17	77.47	108.70	58.39%				
700-4700-51904	Physical Fitness	300.00	-	300.00	100.00%	(300.00)	-	-	0.00%
700-4700-52100	Communications	600.00	291.80	308.20	51.37%				
700-4700-52400	Insurance	4,521.32	367.00	4,154.32	91.88%	2,000.00	6,521.32	6,154.32	94.37%
700-4700-53000	Equipment Mtnc.	5,000.00	7,361.30	(2,361.30)	-47.23%	7,500.00	12,500.00	5,138.70	41.11%
700-4700-53500	Office	-	89.30	(89.30)	0.00%	300.00	300.00	210.70	70.23%
700-4700-53600	Professional	1,000.00	8,158.00	(7,158.00)	-715.80%	10,000.00	11,000.00	2,842.00	25.84%
700-4700-53960	Fuel	6,000.00	2,114.39	3,885.61	64.76%				
700-4700-54000	Special Dept.	1,000.00	515.03	484.97	48.50%				
<b>Fund: 700 - SB325-Senr Taxi Total:</b>		<b>187,620.31</b>	<b>103,128.17</b>	<b>84,492.14</b>	<b>45.03%</b>				
						<b>Overall 700 Increase(Decrease)</b>	<b>(17,279.64)</b>		
<b>Fund: 923 - CDBG-DR</b>	<b>Account Name</b>	<b>Current Total Budget</b>	<b>Fiscal Activity</b>	<b>Amount Remaining</b>	<b>Percent Remaining</b>	<b>Increase (Decrease)</b>	<b>Amended Budget</b>	<b>Amended Amount Remaining</b>	<b>Amended Percentage</b>
923-4801-54000	Special Dept - General Admin	-	42,270.00	(42,270.00)	0.00%				
<b>Fund: 923 - CDBG-DR Total:</b>		<b>-</b>	<b>42,270.00</b>	<b>(42,270.00)</b>	<b>0.00%</b>				
						<b>Overall 923 Increase(Decrease)</b>	<b>0.00</b>		
<b>Fund: 926 - SWRCB</b>	<b>Account Name</b>	<b>Current Total Budget</b>	<b>Fiscal Activity</b>	<b>Amount Remaining</b>	<b>Percent Remaining</b>	<b>Increase (Decrease)</b>	<b>Amended Budget</b>	<b>Amended Amount Remaining</b>	<b>Amended Percentage</b>
<b>Revolving Loan-FeathRvrSwrCrssng</b>									
926-0000-56100	Struct. & Improve	300,000.00	-	300,000.00	100.00%		300,000.00	300,000.00	100.00%
926-4650-53620	Engineering Costs	-	211,273.29	(211,273.29)	0.00%	400,000.00	400,000.00	188,726.71	47.18%
<b>Fund: 926 - SWRCB</b>		<b>300,000.00</b>	<b>211,273.29</b>	<b>88,726.71</b>	<b>29.58%</b>				
<b>Revolving Loan-FeathRvrSwrCrssng Total:</b>						<b>Overall 926 Increase(Decrease)</b>	<b>400,000.00</b>		
<b>Fund: 932 - Outdoor Equity Grant</b>	<b>Account Name</b>	<b>Current Total Budget</b>	<b>Fiscal Activity</b>	<b>Amount Remaining</b>	<b>Percent Remaining</b>	<b>Increase (Decrease)</b>	<b>Amended Budget</b>	<b>Amended Amount Remaining</b>	<b>Amended Percentage</b>
932-4360-51001	Extra Help	-	5,312.59	(5,312.59)	0.00%	15,000.00	15,000.00	9,687.41	64.58%
932-4360-51100	Workmans Comp	-	133.84	(133.84)	0.00%	350.00	350.00	216.16	61.76%
932-4360-51900	Medicare Tax	-	77.03	(77.03)	0.00%	150.00	150.00	72.97	48.65%
932-4360-51902	Social Security	-	289.63	(289.63)	0.00%	550.00	550.00	260.37	47.34%
932-4360-51903	EAP	-	32.19	(32.19)	0.00%	60.00	60.00	27.81	46.35%
932-4360-54000	Special Dept	-	9,520.09	(9,520.09)	0.00%	22,000.00	22,000.00	12,479.91	56.73%
<b>Fund: 932 - Outdoor Equity Grant Total:</b>		<b>-</b>	<b>15,720.71</b>	<b>(15,720.71)</b>	<b>0.00%</b>				
						<b>Overall 932 Increase(Decrease)</b>	<b>38,110.00</b>		

Fund: 933 - Gridley Sports Complex	Account Name	Current Total Budget	Fiscal Activity	Amount Remaining	Percent Remaining	Increase (Decrease)	Amended Budget	Amended Amount Remaining	Amended Percentage
933-0000-56100	Struct. & Improve	2,700,000.00	1,299,638.66	1,400,361.34	51.87%				
933-4320-53600	Professional Expense	100,000.00	-	100,000.00	100.00%	(100,000.00)	-	-	#DIV/0!
933-4320-53620	Engineering Costs	70,000.00	76,509.44	(6,509.44)	-9.30%	165,188.16	235,188.16	158,678.72	67.47%
<b>Fund: 933 - Gridley Sports Complex Total:</b>		<b>2,870,000.00</b>	<b>1,376,148.10</b>	<b>1,493,851.90</b>	<b>52.05%</b>				
<b>Report Total:</b>		<b>25,489,336.47</b>	<b>10,898,497.37</b>	<b>14,590,839.10</b>	<b>57.24%</b>	<b>65,188.16</b>			

<b>Summary</b>	
Total General Fund	279,778.24
Total RDA	306,031.31
Total Gas Tax	(42,482.12)
Total TDA	(1,257.50)
Total Traffic Safety	500.00
Total Richin MT	1,515.00
Total Eagle Meadows MT	12,662.44
Total Heron Landing MT	12,354.24
Total Electric	(79,249.60)
Total Public Benefit	24,361.03
Total Water	63,476.38
Total Sewer	99,926.12
Total Taxi	(17,279.64)
Total Feather River Grant	400,000.00 <i>Reimbursable</i>
Total OEP	38,110.00 <i>Reimbursable</i>
Total Gridley Sports Complex	65,188.16 <i>Reimbursable</i>
 Total	 1,163,634.06
 <i>Grant Funded Reimbursements</i>	 503,298.16
<i>RDA Passthru</i>	306,031.31
<i>Biggs Contract Reimbursement</i>	187,357.00
<i>Operating Increase</i>	166,947.59

**City Council Agenda Item #3**  
Staff Report

<b>Date:</b>	February 2, 2026	<table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"><tr><td style="width: 25px; height: 25px; background-color: #800000; color: white; text-align: center; font-weight: bold;">X</td><td style="width: 75px;">Regular</td></tr><tr><td style="width: 25px; height: 25px; background-color: #0070C0; color: white; text-align: center; font-weight: bold;"> </td><td style="width: 75px;">Special</td></tr><tr><td style="width: 25px; height: 25px; background-color: #00008B; color: white; text-align: center; font-weight: bold;"> </td><td style="width: 75px;">Closed</td></tr><tr><td style="width: 25px; height: 25px; background-color: #000000; color: white; text-align: center; font-weight: bold;"> </td><td style="width: 75px;">Emergency</td></tr></table>	X	Regular		Special		Closed		Emergency
X	Regular									
	Special									
	Closed									
	Emergency									
<b>To:</b>	Mayor and City Council									
<b>From:</b>	Christopher Smith, Principal Planner									
<b>Subject:</b>	Selection of Atlas Planning Solutions for Safety Element Update									

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### **Recommendation**

Staff respectfully recommends that the City Council:

1. Adopt Resolution 2026-R-004: authorizing the City Administrator to negotiate, execute, and administer a Professional Services Agreement with Atlas Planning Solutions, in an amount not-to-exceed \$50,000, for preparation of an update to the City of Gridley Safety Element, including authority to approve amendments up to ten percent (10%).

### **Background**

The Safety Element is one of nine mandatory elements of the City's General Plan, as required by State law. Recent statutory amendments, including SB 1035 (2018), reinforce the need for local governments to ensure their Safety Elements remain compliant with evolving Local Hazard Mitigation Plans (LHMP) and Housing Element planning standards. This action will authorize the City Administrator to retain Atlas Planning Solutions to complete a baseline Safety Element update focused on compliance within the current planning cycle.

The Safety Element must address the protection of the community from unreasonable risks associated with natural and human-caused hazards, including wildfire, flooding, seismic events, and climate adaptation. SB 1035 (2018) expanded the statutory framework for hazard planning and emphasized the importance of ongoing updates.

Due to the late submission of the Housing Element, and in turn, this cycle of the Safety Element, there will be a shortened period until the 2030 cycle. Therefore, staff recommends a compliance-focused update at this time, with a more robust policy overhaul anticipated in the next General Plan cycle around 2030.

Staff evaluated planning firms with demonstrated expertise in California General Plan updates and Safety Element compliance. Atlas Planning Solutions was determined to be the best option due to its specialized experience, ability to complete the work efficiently, familiarity with State requirements, and cost effectiveness.

Atlas Planning Solutions will prepare an updated Safety Element document that satisfies baseline statutory requirements. Key tasks include:

- Review of the existing Safety Element
- Updates to comply with SB 1035 and related statutory requirements
- Integration of hazard mitigation standards and State guidance
- Preparation of draft Safety Element language suitable for adoption

- Assistance through Planning Commission and City Council hearings

This scope is intended to achieve compliance now, with deeper modernization planned in the next cycle.

#### **Environmental Review**

This action is not a project under the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15378, as it involves administrative authorization to execute a professional services agreement and does not result in a direct or reasonably foreseeable physical change in the environment.

#### **Fiscal Impact**

The agreement will be in an amount not-to-exceed \$50,000, funded through the General Fund. This expenditure is not included in the adopted FY 2025–2026 budget and will require a budget amendment. The work is expected to extend into FY 2026–2027, requiring carry-forward appropriations as needed.

#### **Compliance with City Council Strategic Plan or Budget Goals**

This Safety Element update is consistent with our ongoing effort to be in compliance with state and federal regulations. The document informs the broader agencies of our current needs and future goals and will result in continued access to financial support and discretionary autonomy.

#### **ATTACHMENTS:**

Attachment A – Resolution 2026-R-004: authorizing the City Administrator to negotiate, execute, and administer a Professional Services Agreements with Atlas Planning Solutions for the Safety Element Update

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GRIDLEY AUTHORIZING THE CITY  
ADMINISTRATOR TO NEGOTIATE, EXECUTE, AND ADMINISTER A PROFESSIONAL SERVICES  
AGREEMENT WITH ATLAS PLANNING SOLUTIONS FOR PREPARATION OF A GENERAL PLAN  
SAFETY ELEMENT UPDATE, IN AN AMOUNT NOT-TO-EXCEED FIFTY THOUSAND DOLLARS  
(\$50,000), INCLUDING AUTHORITY TO APPROVE AMENDMENTS UP TO TEN PERCENT (10%),  
AND DIRECTING A BUDGET AMENDMENT**

**WHEREAS**, the City of Gridley ("City") is required to maintain a comprehensive General Plan, including a Safety Element, pursuant to California Government Code Section 65300 et seq.; and

**WHEREAS**, the Safety Element must address the protection of the community from unreasonable risks associated with natural and human-caused hazards and must be maintained in a manner consistent with applicable State law; and

**WHEREAS**, statutory amendments, including Senate Bill 1035 (2018), reinforce and expand Safety Element requirements and the need for local governments to ensure their Safety Elements remain compliant with evolving hazard planning standards and State guidance; and

**WHEREAS**, the City desires to retain a qualified consultant to prepare a baseline update to the Safety Element to achieve compliance within the current planning cycle, while planning for a more comprehensive policy overhaul during the next Housing Element cycle; and

**WHEREAS**, City staff evaluated available options and determined Atlas Planning Solutions is the best-qualified and most cost-effective consultant to provide the required professional services within the City's schedule constraints; and

**WHEREAS**, the proposed agreement will be in an amount not-to-exceed Fifty Thousand Dollars (\$50,000) funded from the General Fund, and the expenditure is not currently included in the adopted FY 2025–2026 budget and therefore requires a budget amendment, with work anticipated to extend into FY 2026–2027; and

**WHEREAS**, the City Council finds that authorization to negotiate and execute a professional services agreement is an administrative action and is not a project under the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15378 because it will not result in a direct or reasonably foreseeable physical change in the environment; and

**WHEREAS**, the City Council desires to authorize the City Administrator to negotiate, execute, and administer the professional services agreement and to approve amendments up to ten percent (10%) to ensure efficient administration of the work.

**NOW, THEREFORE, BE IT RESOLVED** by the City Council of the City of Gridley as follows:

**SECTION 1. Authorization.**

The City Council hereby authorizes the City Administrator to negotiate, execute, and administer a Professional Services Agreement with Atlas Planning Solutions for preparation of a General Plan Safety Element Update, in an amount not-to-exceed Fifty Thousand Dollars (\$50,000), in substantially the form presented to the City Council, subject to approval as to form by the City Attorney.

**SECTION 2. Scope and Administration.**

The professional services shall be for a baseline Safety Element update intended to achieve compliance with applicable State requirements during the current planning cycle. The City Administrator is authorized to take all actions reasonably necessary to implement this Resolution and administer the agreement in accordance with its terms.

**SECTION 3. Amendments.**

The City Council further authorizes the City Administrator to approve and execute amendments, change orders, and minor modifications to the agreement that do not individually or cumulatively exceed ten percent (10%) of the not-to-exceed contract amount, provided that such amendments are consistent with the general scope and purpose of the services authorized herein and subject to approval as to form by the City Attorney.

**SECTION 4. Budget Amendment and Appropriation.**

City staff is directed to prepare the necessary budget amendment(s) to appropriate General Fund monies sufficient to support the agreement, including carry-forward or subsequent appropriations as needed for work extending into FY 2026–2027.

**SECTION 5. CEQA Determination.**

The City Council finds that this action is not a project under CEQA Guidelines Section 15378, because it is an administrative activity that does not have the potential to result in a direct or reasonably foreseeable physical change in the environment.

**SECTION 6. Effective Date.**

This Resolution shall take effect immediately upon its adoption.

**RESOLUTION NO. 2026-R-004**

PASSED AND ADOPTED by the City Council of the City of Gridley at a regular meeting held on February 2, 2026, by the following vote:

AYES: COUNCIL MEMBERS:

NOES: COUNCIL MEMBERS:

ABSTAIN: COUNCIL MEMBERS:

ABSENT: COUNCIL MEMBERS:

ATTEST: APPROVE:

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Elisa Arteaga, City Clerk

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Michael W. Farr, Mayor



## City Council Agenda Item #4

### Staff Report

<b>Date:</b>	February 2, 2026	<input checked="" type="checkbox"/>	Regular
<b>To:</b>	Mayor and City Council	<input type="checkbox"/>	Special
<b>From:</b>	Elisa Arteaga, City Administrator	<input type="checkbox"/>	Closed
<b>Subject:</b>	Laurel Street Extension – Update and Options	<input type="checkbox"/>	Emergency

#### Recommendation

City staff respectfully request that the Mayor and City Council provide direction on the Laurel St. Extension for the flowing options.

1. Authorize the City Administrator to execute Task Order 16-607-300 with Bennett Engineering Services (BENEN) to manage, design, and prepare construction documents for the Laurel Street Extension Project in the amount of \$149,415, so it is a shovel ready project.
2. Pursue CDBG Grant for construction, due April 2, 2025
3. Wait on submittal of construction grant but still move forward with design.
4. Wait on design and pursue a planning grant in 2027.

#### Background

The recent subdivision developments west of Randolph Ave. have brought to light the need to extend Laurel St to the west to provide connection and access to the infill housing within the City limits. This road extension will provide safe travel to schools and businesses, as well as reduce wear and tear on other local roads.

The project will include extending Laurel St approximately 1200 ft west of Randolph Ave. within a 60-foot wide Right of Way, including roadway, curb, gutters and sidewalk on both sides of the street, adding storm drainpipe in the existing drainage ditch, extending the and waterline to loop the system with the new development. The existing sewer line in the current location will be evaluated condition for potential replacement and upsizing as part of the project.

The Laurel Street Extension would improve safety, connectivity, circulation, and access for existing and planned infill housing areas within the City limits.

City Staff has identified a potential grant funding opportunity to cover up to \$3,000,000 through the Community Development Block Grant Program (CDBG). This is a competitive grant program focused on infrastructure that supports infill and low-income housing. The Pacific Flyway development currently being built is in alignment with this criteria. One of the other criteria for the grant is that the project must be shovel-ready, meaning bid documents are complete including design plans, specifications, engineer's cost estimate, and the notice to bidders. The application deadline for this round of this funding opportunity is scheduled for April 2, 2026, creating a very tight schedule for the City to develop this bid documents and secure right-of-way.

The estimated Cost of the project with 2026 cost is \$3,180,000, including a 15% contingency, see attached.

Through our collaboration with Housing Tools, it was discovered that we did not meet a January 19, 2026 deadline for getting preapproval to expense planning efforts to the construction grant. The City is looking for ways to potentially recover these funds through other means with CDBG, however it is most likely that the City will need to pay for the planning efforts if done at this time.

BENEN, as our City Engineer and design engineers, has the in-house expertise, resources, and knowledge of the City to complete the design in the short timeframe and the available resources to meet the funding deadline. BENEN will provide project management, data collection, project design, utility coordination, permitting, and bid documents for the road extension project.

#### **Financial Impact**

The financial impact of the design phase of the project will include up to \$149,415 for engineering services. If approved, a supplemental appropriation resolution will follow.

#### **Compliance with City Council Strategic Plan or Budget Goals**

The City Council and City staff are committed to providing effective leadership while providing quality cost-effective local government services.

#### **Attachments**

Bennett Engineering Services – Task Order 16-607-300 for the Laurel St extension.  
Exhibit of the Laurel St Extension

# 10% Opinion of Probable Construction Cost

**DRAFT**



Project Name: Laurel Extension - From Randolph Rd West of Butte View Dr		Project No: 16607	
Location Laurel & Rudolph, City of Gridley		Client Project No.	Client Name City of Gridley
QTY. ORIGINATOR J. Varnedoe	DATE 12/29/2025	QTY. CHECKER D. Harden	DATE 1/22/2026

Item No.	ITEM DESCRIPTION	Estimated Quantity	Unit	Unit Price (\$/Unit)	Amount (\$)
1	Mobilization and Demobilization	1	LS	\$ 200,000.00	\$ 200,000.00
2	Clearing & Grubbing and Tree Removal	1	LS	\$ 50,000.00	\$ 50,000.00
3	SWPPP and Monitoring	1	LS	\$ 35,000.00	\$ 35,000.00
4	Excavation & Grading	2,450	CY	\$ 110.00	\$ 269,500.00
5	Import Borrow	1,170	CY	\$ 100.00	\$ 117,000.00
6	Hot Mix Asphalt - Type A	1,420	TON	\$ 250.00	\$ 355,000.00
7	Aggregate Base	1,630	CY	\$ 120.00	\$ 195,600.00
8	Curb & Gutter	2,470	LF	\$ 40.00	\$ 98,800.00
9	Minor Concrete (Sidewalk)	12,740	SQFT	\$ 30.00	\$ 382,200.00
10	Minor Concrete (Curb Ramp)	8	EA	\$ 8,000.00	\$ 64,000.00
11	Minor Concrete (Driveway)	1	EA	\$ 18,000.00	\$ 18,000.00
11	Striping & Signage	1	LS	\$ 15,000.00	\$ 15,000.00
					<b>ROADWAY SUBTOTAL</b> \$ 1,800,100.00
12	Install 30" Storm Drain Pipe	740	LF	\$ 350.00	\$ 259,000.00
13	Install Storm Drain Manhole	3	EA	\$ 15,000.00	\$ 45,000.00
14	Install Storm Drain Inlet	2	EA	\$ 6,000.00	\$ 12,000.00
15	Install Storm Drain Outfall/Headwall Structure	1	EA	\$ 20,000.00	\$ 20,000.00
16	Install 10" C900 Water Pipe w/ Appurtenances	750	Lf	\$ 220.00	\$ 165,000.00
					<b>UTILITY SUBTOTAL</b> \$ 501,000.00
					<b>PROJECT SUBTOTAL</b> = \$ 2,301,100.00
					Construction Management 15% = \$ 345,165.00
					Engineering and Environmental 10% = \$ 230,110.00
					<b>PROJECT 2025 TOTAL</b> = \$ 2,876,400.00
					Contingency 25% = \$ 719,100.00
					<b>2025 PROJECTED PROJECT BUDGET</b> = \$ 3,600,000.00

BENNETT ENGINEERING SERVICES ASSUMES NO RESPONSIBILITY FOR  
DIFFERENCES BETWEEN THESE QUANTITIES AND FINAL PAY QUANTITIES.



## City Council Agenda Item #5

### Staff Report

**Date:** February 2, 2026  
**To:** Mayor and City Council  
**From:** Dave Harden, City Engineer  
**Subject:** Public Introduction to the Draft Gridley Design and Construction Standard Specifications and Details

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<input checked="" type="checkbox"/>	Regular
<input type="checkbox"/>	Special
<input type="checkbox"/>	Closed
<input type="checkbox"/>	Emergency

**No action is needed at this time.**

#### **Background**

City Staff are proud to present the updated draft of the City of Gridley Design and Construction Standard Specifications and Details. This effort represents a major overhaul and revamping of the City of Gridley Public Works Construction Standards.

The details and specifications have been thoroughly reviewed multiple rounds of comments and revisions which incorporated design and construction elements specific to Gridley, as well as updated standards in alignment current state and federal standards. The updated standards focus on providing information needed for incoming development to design and build city infrastructure to acceptable standards.

This presentation of this draft of the new and updated City of Gridley Design and Construction Standard Specifications and Details serve as an introduction and notice to the public of the opportunity to provide comments prior to the adoptions by the council. After the close of a 45-day public comment period, City Staff will revise and finalize all the details and specifications and return to council with a resolution for adoption of the Standards.

#### **Fiscal Impact**

There is no additional fiscal impact related to public comment and revisions. This item was part of previously approved task order.

#### **Compliance with City Council Strategic Plan or Budget Goals**

This report is consistent with our efforts to comply with the City of Gridley Municipal Code and advance the best standard and practices.

#### **Attachments –**

Updated City Standard Details and Specifications including

- Water
- Sanitary Sewer
- Drainage
- Streets
- Drainage
- Miscellaneous

## Section 6 - Domestic Water

### 6.1 General

These improvement standards shall govern the engineering design and construction of all domestic water systems intended for operation and maintenance by the City of Gridley.

All work shall be installed in accordance with the requirements of the American Water Works Association (AWWA), these Standards, the California Building Code, the California Plumbing Code and as recommended by the manufacturer. These Standards and manufacturer's guidelines shall always be present at the construction site.

### 6.2 Connection to Existing Facilities

Connections to existing City water facilities shall be made after approval by the City Engineer and all permits have been issued.

All work related to the connection shall be done by the Contractor with full-time inspection by the City or a contracted City inspector. A gate valve shall be provided at the point of connection to isolate new water mains from the existing system. New water facilities shall remain isolated from the existing system source water using a backflow preventer tested in place until the connection is approved.

Hot tap connections may be allowed if approved by the City Engineer. Hot tap connections will not be allowed on existing steel pipelines, nor when the diameter of the service line is equal to or greater than the diameter of the main. If hot tapping is approved by the City Engineer, the Contractor shall have the tapping sleeve and valve fully installed, thrust blocked or fully restrained, supported and approved by the City prior to making the hot tap, and the tap shall be the full nominal diameter of the tapping sleeve and valve.

The Contractor shall tie into the new system or to an existing stub under the following conditions:

1. With specific approval of the City.
2. Care shall be taken to provide a clean, sanitary tie in site.
3. Dewatering of both the new and existing water mains shall take place in a way as to prevent contamination by trench water.
4. All materials used in the tie in shall be clean, new, and swabbed with chlorine to the satisfaction of the City Inspector.
5. All tie ins shall take place in the presence of the City Inspector. City inspector shall be notified no later than 48 hours prior to the start of work.
6. Notify customers of pending service outages 24 hours in advance using door hangers approved by the City Engineer.
7. Tie ins may take place only after the newly constructed water system has successfully passed all required testing procedures as established in these Standards or Standard Details as determined by the City Engineer.
8. Under no circumstances shall anyone other than a representative of the City open or close valves in a City operated system, unless approved by the City Engineer.

#### **A. Construction Staking**

The water main shall be staked prior to excavation. Staking shall provide the station and the offset to the water main, as well as the cut to the nearest 0.1 foot. Stakes shall be provided at a minimum of every 100 feet in tangent sections, every 25 feet in curved sections, and every 10 feet in approved vertical curve sections, and at all valves and appurtenances.

#### **B. Cross Connection Control on Fire Sprinkler Systems**

According to the California Health and Safety Code Section 13114.7, no backflow prevention devices other than those specified in the Standards of the National Fire Protection Association (NFPA) may be required for Class I and II fire sprinkler systems. Class I automatic fire sprinkler systems are those systems supplied by public water mains only (i.e., no pumps, tanks or reservoirs, physical connection from other water supplies, and no anti-freeze or other additives of any kind).

Class II systems are the same except that booster pumps, whose sole source of supply is the public water system, may be installed in the connection from the street main.

Automatic fire sprinkler systems which have cross-connections to unapproved sources of water, in addition to being connected to the public water mains, shall have backflow protection as required by American Water Works Association M-14 for Class III, IV, V, and VI fire systems.

All automatic fire sprinkler systems shall be installed in accordance with provisions of National Fire Protection Association (NFPA) 13, "Installation of Sprinkler Systems". All systems shall have a fire department connection as required by NFPA #13, unless waived by the Fire Chief. All Class I and II automatic fire sprinkler systems, as with all fire extinguishing systems, shall be serviced and maintained on a regular basis in accordance with the provisions of Chapter 1.8 (starting with Section 13195) of Part 2 of Division 12 of the California Health and Safety Code.

In accordance with NFPA 13, each automatic fire sprinkler system shall have an alarm check valve, or equivalent, which is listed and approved for fire system use. Each fire department connection shall have a listed double detector check valve as required by NFPA 13. Further, the fire department connection shall be attached to the sprinkler system above the alarm check valve assembly and not on the supply side. Class I and II systems connected to public mains only do not require double backflow protection devices. Since Class I and II systems are located on public water mains and fire hydrants, the public mains shall be used for supplementary water except in cases of extreme emergency situations where a fire progresses beyond the design criteria of the system and additional water, either in volume or pressure, is required to control the fire situation.

When such added water is needed, it shall be taken from fire hydrants on the public mains through the appropriate fire department pumper and hose lines. The connection shall not be used to pump water from any source other than the public water system.

### **6.3 Design Criteria**

These criteria shall apply to the engineering design of all water systems intended for operation and maintenance by the City. The intent of these criteria is to provide a water system that will dependably and safely convey high quality water throughout the distribution system.

All work shall comply with the pertinent and current requirements of the following agencies.

1. United States Environmental Protection Agency (EPA) Drinking Water Regulations.
2. Laws and Standards of the State of California, Department of Public Health Services relating to Domestic Water Supply.
3. Title 17, Chapter V, Sections 7583-7622, California Administrative Code regarding cross-connections and backflow prevention
4. Latest Edition of the American Water Works Association (AWWA) Standards.
5. Gridley Fire Code

In the case of conflicting design criteria, the requirements of these standards shall take precedence.

## 6.4 Water Supply Quality and Pressure

The quality of water supplied to the system shall conform to the Environmental Protection Agency Drinking Water Act, and the State Department of Health Services Drinking Water Standards.

Normal operating pressures of not less than 50 PSI nor more than 75 PSI shall be maintained at service connections to the system, except that during periods of peak domestic and fire demand, the pressure shall not be less than 20 PSI.

## 6.5 Flow Determination

Determination of flow volumes required for a specific land use category shall consider maximum day domestic demands occurring in conjunction with an emergency fire flow demand. For design of the distribution system, the following unit demand factors shall be assumed.

Factors assume a 30% FAR. 50% FAR for senior living.

*Table 6-1 Flow Determination*

Land Use Category	Average Day unit Demand Factors
Very Low Density Residential (0.5-3 DU/AC)	728 gpd/DU
Low Density Residential (2-4 DU/AC)	600 gpd/DU
Medium Density Residential (5-8 DU/AC)	478 gpd/DU
High Density Residential 1 (9-15 DU/AC)	306 gpd/DU
High Density Residential 2 (15-30 DU/AC)	177 gpd/DU
Agricultural	2,000 gpd/AC

Agricultural Industrial	2,598 gpd/aC
Industrial	2,562 gpd/AC
Commercial	2,598 gpd/AC
Neighborhood Center Mixed Use	2,598 gpd/AC
Open Space	-
Park	2,988 gpd/AC
Public	1,780 gpd/AC
Elementary School	3,454 gpd/AC
High Schools	4,068 gpd/AC
Railroad Yard	109 gpd/AC

#### A. Peaking Factors

The average day demand to maximum day demand peaking factor shall be 2.0. The maximum day demand to peak hour demand peaking factor shall be 1.7 (3.4 average day to peak hour).

#### B. Required Fire Flows

For areas of the general type noted below, the indicated water supply for fire flows shall be provided with the initial development. Expansion or changing in zoning of the development shall be subject to the requirements of the California Fire Code (CFC) as adopted by the City.

##### Residential Areas

Single family homes equipped with automatic fire sprinklers systems shall require a 1" minimum water service and meter. The minimum 1" water line shall start from the public main to the required water meter.

##### Multi-Family Areas

For attached multi-family units, the fire flow shall be determined by the Gridley Fire Department. The maximum fire flow however shall not exceed 4,000 gpm provided the building is fully sprinklered in accordance with the CFC as adopted by the City. For buildings that are not sprinklered, contact the GFD.

## 6.6 Water System Design

Standard distribution main sizes are 6, 8, and 12 inches in diameter. Sizes of mains shall be such that the stated normal pressures, and the minimum requirements for main spacing, specified below, are maintained. The distribution system shall be designed in grid form to provide equalized pressures throughout the system equalized under varying rates and location of demand. The minimum pressures and flows specified in these standards shall govern the design. The following shall be considered during system design:

#### A. Hydraulic Analysis

A network hydraulic analysis shall be provided to the Public Works Department upon request. The hydraulic analysis submittal shall include two copies of the following items:

1. The data input files, as well as the analysis results in electronic format.

2. Information on the proposed development (e.g. type of development, number of acres, number of units, fire flow requirements, etc.).
3. Data sheets outlining all assumptions (e.g. method used to assign demands to corresponding junction nodes and source HGL's used).
4. Map identifying pipe and node numbers and their locations.
5. Fire hydrant locations.
6. The name and version of software used for the analysis.
7. Elevations of junction and source nodes. The elevations used in the network hydraulic analysis shall be based on a project grading plan or the anticipated final elevations. If the final grading plan deviates significantly from the elevations used in the analysis, a revised analysis will be required.
8. Staging or phasing of the development.
9. Appropriate off-site demands.

**B. The Hazen -Williams formula shall be used in the analysis of the system. Pipe Size and Materials**

For transmission lines between wells the minimum pipe size is 10 inches. Standard distribution main sizes are 6, 8, and 12 inches in diameter as stated above. For looped mains and interconnections, the minimum pipe size is 6 inches.

Pipe materials for mains shall be ductile iron pipe or C-900 PVC pipe with cast iron dimensions.

**C. Cover**

A minimum cover of 36 inches and a maximum cover of 60 inches shall be maintained as measured from the outside bell of the pipe to the pavement or final grade, unless approved by the City Engineer.

**D. Stubs**

Stubs for future developments shall be a minimum of 18 feet fully restrained ductile iron pipe, originating from the water main.

**E. Water Main Location**

If it is necessary to install a water main outside of the public right-of-way, an easement dedication to the City shall be required. Water mains shall be centered ([suggest 20' and off set from centerline](#)) within their easement. Easements shall be located completely on one side of a property line or fence. Dedicated easements shall be clear of all permanent structures, building eaves, roof lines and the future trunks of large tree species. Temporary construction easements of adequate size shall also be provided. The easement width shall be a minimum of 20 feet. Dead End mains shall be eliminated wherever possible by looping the system. Blow-offs conforming to these standards shall be installed at all permanent or temporary dead-end mains.

## F. Minimum Separation Requirements

Water mains shall maintain separation from all sanitary sewers and recycled water mains per the most current state water code on vertical and horizontal separation. (Title 22, Chapter 16, Section 64572)

### Key Requirements for Water Main Separation (CCR §64572):

1. **Horizontal Separation:** New water mains must be at least 10 feet away from parallel sewage or hazardous fluid pipelines.
2. **Vertical Separation:** Water mains must be installed at least 1 foot *above* sewer pipelines when parallel.
3. **Crossing:** When crossing, water mains must be at least 1 foot *above* the sewage pipe.
4. **Recycled Water:** For disinfected tertiary recycled water or storm drains, the requirement is a minimum of 4 feet horizontally and 1 foot vertically above the pipe.
5. **Exceptions:** If 10-foot horizontal/1-foot vertical separation is not possible, the water main must be encased or the alternative design must be approved by the State Water Resources Control Board.

All other utilities shall maintain a minimum 5-foot separation sidewall of pipe to sidewall of pipe.

## G. Vertical Elevation Changes

Mains designed with a vertical elevation change using angle fittings use a segment of ductile iron pipe with an approved restraint system between the two fittings. All water mains shall be fully restrained for the length required by the pipe diameter, type of pipe used, trench and bedding classification. Thrust blocks shall only be used if approved by the City Engineer. High and low points (exceeding 2 pipe diameters) shall be addressed with blow offs or ARV's as appropriate.

## H. Warranty Inspection of Water Main Stubs

As a requirement, water stubs are provided to subdivisions as a courtesy by developers during the construction of backbone infrastructures in streets to prevent cutting up the newly paved streets when the subdivisions are ready to develop. These stubs become an integral part of the water system and subsequently the responsibility of the developers of the subdivision and are therefore imperiled to both construction and warranty inspections. This practice saves future developers' construction time and cost that would have otherwise been spent on tie-ins and street repairs and in some instances prevents delays in the event a street has a moratorium. Since these stubs are provided at no cost to future developers, it is our policy, that it is the responsibility of the contractors to test and repair these stubs, if found damaged, prior to tie-ins. A note of this effect shall be placed on the improvement plans.

## 6.7 Valves

Sufficient valves shall be provided on water mains to minimize customer service interruptions and sanitary hazards during repairs and future development or at a maximum of 500' from the nearest valve.

#### A. Location

Valves will generally be located as follows. No single shut down will result in shutting down a transmission main. Valves will be installed at minimum intervals of 500 feet in school, commercial, industrial, or multi-family residential developments.

In residential areas, valves shall be spaced such that no single shutdown will result in shutting off water to more than 20 services or 800 feet of water main whichever comes first.

Valves shall be located such that any section of main can be shut down without going to more than three valves to shut down the main section. All tees shall have a minimum of two valves. All crosses shall have a minimum of three valves.

Commercial services 6 inches and greater shall have a valve on each branch of the tee for a total of two valves.

Valves should not be located in; gutters, valley gutters, or driveways. A valve shall be installed on each side of a creek, canal, bridge, major highway or as required by the City Engineer.

A gate valve shall be installed at the point of connection when connecting a new water main to the existing water system.

#### B. Removal and Abandonment

Any valve outlet installed prior to lot development and subsequently not required shall be removed in its entirety. If removal is not practical, the valve shall be abandoned in the closed position and the lateral shall be cut, capped, and finished with an adequate thrust block. The lid shall be welded shut and painted red. The following note shall appear on the construction drawing:

*The Contractor shall cut the existing pipe where shown on the drawing and install a restrained cap complete with thrust block. Where a joint or coupling in the existing pipe is uncovered at the cut and cap locations, the installation of a plug may be permitted with approval from the City Engineer.*

#### C. Valve Extension Stems

Valve extension stems are required where the distance from the top of the valve box to the top of the operation nut exceeds 40 inches. The valve extension stem shall be a minimum of 24 inches long and shall be within 24 inches of the surface.

#### D. Air Relief/ Vacuum Valves

In the absence of services to relieve air trapped in high points of the water main, air relief or air vacuum relief valves are required on pipeline high points and changes in grade (exceeding 2 pipe diameters).

## 6.8 Hydrant and Blow Offs

#### A. Location

Hydrants and blow-offs shall adhere to the following criteria.

1. Fire hydrants shall be placed at street intersections wherever possible. Hydrants located at intersections shall be installed at the curb return on the same side of the water main connection.

2. Fire hydrants and blow-offs not located at intersections shall be installed on property lines between lots.
3. Not more than three hydrants shall be installed on an 8-inch main between intersecting 12-inch mains. The pipeline connecting the hydrant and the main shall be a minimum of 6 inches, with a flanged gate valve connected to the main.
4. A blow-off assembly shall be installed on all permanent and temporary dead-end runs. A 2-inch blow-off shall be used on mains 12 inches and smaller. A 6-inch blow-off shall be used on mains 16 inches and larger. In no case shall the location be such that there is a possibility of back-siphonage into the distribution system.
5. Blow-off assemblies shall be located at low points along mains.
6. Hydrants, valves and buries shall be installed per the standard details.

#### **B. Spacing**

Fire hydrants and blow-offs shall have a maximum spacing of 500 feet measured along the street frontage in residential areas and a maximum spacing of 350 feet in all other areas. Where new water mains are extended along streets where hydrants are not needed for protection of buildings or similar fire problems, fire hydrants shall be provided at spacing not to exceed 1,000 feet to provide for transportation hazards.

Hydrant valves shall be placed at the tee on the main.

#### **C. Cul-de-sacs and Dead End Streets**

Hydrants shall be required within a cul-de-sac or dead-end street measuring more than 250 feet as measured from the curb return of the intersecting street and the end of the bulb or street. A minimum 8-inch water main shall extend up to the hydrant tee.

### **6.9 Water Services**

Water services shall be installed at the time the water main is constructed. Service stubs 2 inches and smaller shall be polyethylene (CTS). Service stubs 3 inches and larger shall be fully restrained ductile iron pipes. Services from mains installed in private roads shall be extended 1-foot beyond the edge of pavement. Water services shall also conform to the following requirements.

#### **A. Location**

The building service shall be located to provide the most direct connection to the main. Every effort shall be made to pair services. Single and double residential water services shall be installed on lot/property lines.

The curb shall be stamped with a "W" at all service locations.

#### **B. Sizing**

The standard size of a single-family residential service line shall be a minimum 1-inch service or as determined by the City Engineer. Schools, commercial, industrial, or a multi-family residential developments shall be provided with a larger service subject to approval by the City Engineer.

For service laterals 2 inches in diameter or smaller, service saddles shall be a minimum of 12 inches from the end of the main and 24 inches to any other service saddle or pipe joint.

### **C. Service Taps**

The City reserves the right to make all water service taps onto existing mains upon application for a service tap and authorization for payment. Work by the City shall be performed on a time and materials basis. A note to this effect shall be placed on the plan sheet which shows a detail of the area that requires such tapping. The service tap application shall be made to the City a minimum of two weeks in advance of the time the tap is desired. All connection fees must be paid prior to the time of application. All excavation, backfill and the installation of the remainder of the water service shall be performed by the Contractor.

### **D. Water Meters**

Water meters shall be installed on all water services. Meters shall be purchased through the City and installed by City forces upon plan approval and payment of the connection fees.

## **6.10 Water improvement Plan Requirements**

Plans for the construction of water infrastructure, whether in conjunction with other improvements or for a water project only, shall conform to these standards, meet the following requirements.

### **A. Water Study**

A water study or water master plan as determined by the City may be required prior to review of the water design if there is a possibility that adjacent areas might require service through the subject property.

### **B. General Requirements**

Plans for the water improvement project shall include a layout sheet, plan and profile of each public water line, and necessary detail drawings.

### **C. Layout Sheet**

Improvement plans shall include an overall map which shows the project boundaries, water mains, valves, services, and other important items of the work.

A parcel which benefits from and financially participates in a water construction project, but is not included within the project boundaries, shall have a note to this effect placed on the layout map and on the plan and profile sheet if the parcel appears thereon. Parcels which make use of those facilities may be subject to additional fees at the time of connection, if the participation has not been so noted.

## **6.11 Restraint**

Joint restraint shall be achieved by means of a mechanical joint restraint device. Full pipe restraint shall be required within bridges, casings, dead end runs, temporary dead end runs, at all angle points, and as determined by the City. Restrained pipe within casings or bridges shall be fully extended or "stretched out" to remove the slack between the joints the entire length of the structure. A note shall be placed on the plans. Thrust blocks shall not be used unless specifically called out on the plan set and approved by the City. Restraint calculations shall be submitted with the plan review. Restraint calculation parameters are as follows: soil type ml, granular fill, 1.5 to 1 safety factor, trench type 4, and minimum test pressure of 150 psi.

## **6.12 Work Near Existing Mains**

Existing transmission water mains shall be clearly shown on the plans. The plans shall have a caution note on the cover sheet, plan/profile sheets, and grading sheets where the main is shown as existing. The notes shall read as follows: *CAUTION EXISTING (name size) WATER MAIN.*

No construction shall be permitted within the water main easement without the presence of the City's inspector. Prior to start of construction, 48-hour notice shall be given to the Public Works Department. Heavy equipment and vibratory equipment may cross designated segments of the water main with a minimum of 10 feet of cover or approved equivalent. The City shall inspect the condition of the existing main prior to paving. Request for inspection shall be made two weeks in advance.

## **6.13 Pipe Bedding**

Pipe bedding shall conform to the standard details and the following.

Bedding shall provide uniform and continuous support along the barrel of the pipe. The minimum (6" for mains, 4" for service lines) depth of bedding material shall be provided under the bell. Blocking of the pipe is not permitted.

Loose material shall be removed from the trench bottom and replaced with imported material.

Where rocky, unyielding, or unsuitable foundation material is encountered, the subgrade shall be excavated a minimum of 12 inches below the pipe and the trench width shall be increased a minimum of 12 inches. The over-excavation shall be replaced with imported material.

Where the trench bottom is soft, yielding or unstable, the trench bottom shall be over-excavated.  $\frac{3}{4}$ " crushed rock shall be placed in the trench to provide a stable foundation. The rock is in addition to the required pipe bedding used in the pipe zone.

Bell holes shall be excavated per manufacturer's recommendations. The minimum depth of bedding material shall be 6" for mains, 4" for service lines provided under the bell. Care shall be taken to ensure that the bell hole is no larger than necessary to accomplish proper joint assembly.

## **6.14 Installation**

Water pipe shall be installed in accordance with the following provisions.

The contractor shall keep the pipe interior free from foreign materials and in a clean and sanitary condition until acceptance by the City. At times when pipe laying is not in progress, the open pipe end shall be sealed with a water tight cap or plug to prevent foreign matter from entering the pipe. Provisions shall apply overnight.

Trenches shall be in a reasonably dry condition when pipe is laid. Care shall be taken when lowering pipe into the trench to protect the pipe from damage. Chains are not permitted. The pipe shall be laid carefully to the lines and grades shown without grade breaks, unless designed with such, or to minimum depths shown on the approved plans. If field conditions exist such that the pipe may not be laid to the specified grade, the approved plans will require revisions prior to proceeding with construction.

Pipe sections shall be closely jointed to form a smooth flowline. Care shall be taken in placing the pipe and making field joints.

No facility is to be backfilled without inspection by the City. Improvements installed without proper inspection shall be exposed and inspected as required by the City. All installations shall follow manufacturer's recommendations unless otherwise noted on the approved plans. The manufacturer's installation guide shall be on the job site at all times.

Pipes shall be fully restrained to the length specified in the approved plans, using materials specified herein.

Thrust blocks shall only be used where specifically shown on the plan /profile sheets and/or standard detail sheets. All fittings and appurtenances shall maintain a minimum of 18 feet of restrained pipe into the fitting from all directions. Plans should reflect the restraint lengths required for each segment and transition.

A continuous number 12 insulated tracing wire shall be attached to mains, service lines and appurtenances per these Standards, Details and the following:

1. Tracing wire shall be continuous between mainline valve boxes and fire hydrants. It shall be attached to the top of the pipe with 10-mil vinyl tape every 5 feet.
2. Tracing wires through valve boxes shall be placed outside of riser, but inside the box. (24 inches coiled)
3. Tracing wire in manholes and vaults shall be attached inside the facility within 1 foot of the rim.
4. Wire splices shall be located above ground and inside of valve boxes, per Details and as follows: Install a copper split bolt connector on the splice, twist the wire together with a minimum of 5 twists, solder all connections, and cover and splice with mastic tape and wrap with vinyl tape. A 12 inch wide, blue plastic non-detectable water pipe marking tape, marked "Buried Water Main Below," shall be placed in all main line trenches. The detectable tape shall be installed between the aggregate base backfill and the bedding sand layers. The warning tape shall extend to the nearest valves located on each side of said intersection.

Mains in unpaved areas shall be marked every 150 lineal feet with a blue composite utility marker having a decal stating: "Caution Water Pipeline." Appurtenances (valves, ARV's, test stations, etc.) and angle points shall also be marked. Mains in landscaped areas shall be delineated with a brass marker set in an 8 inch concrete cylinder 4 inches above finished grade every 300 lineal feet. The brass marker shall state "City of Gridley Water Main."

All underground metal (ductile iron, valves, fittings, copper, brass, etc.) shall be wrapped in 10 mil minimum thickness polyethylene encasement with ends taped off with vinyl pipe wrap tape.

#### **A. Polyvinyl Chloride (PVC) Pressure Pipe**

PVC shall be installed in accordance with the AWWA Manual M23 and the manufacturer's recommendations, except as otherwise provided herein:

1. PVC Pipe shall have been manufactured within the 18 month period prior to installation.
2. Pipe and gaskets shall be kept clean and protected against sunlight and heat damage.
3. Pipe showing signs of physical damage or excessive ultraviolet exposure will be rejected and shall be immediately removed from the job site.

4. The pipe shall be installed with the manufacturing label showing on the top. Pipe segments shall be continuous of one manufacturer.
5. The reference mark or stab line on the spigot end must be flush with the bell end and visible for inspection
6. The beveled end of the pipe shall be cut off before placement into a mechanical joint.
7. Minimum length of pipe for installation shall be 5 feet.

## **B. Ductile Iron Pipe (DIP)**

DIP shall be installed in accordance with the standards for "Installation of Ductile Iron Water Mains and Their Appurtenances" (ANSI/AWWA C-600) and the manufacturer's recommendations, and as provided herein:

1. DIP shall be polyethylene encased in accordance with these Standards and the standard for "Polyethylene Encasement for Ductile-Iron Piping for Water and Other Liquids" (ANSI/AWWA C-105/A21.5).
2. At the direction of the City, the Contractor shall repair damages to the polyethylene encasement as described within ANSI/AWWA C-105/A21.5 or shall replace all damaged polyethylene film sections.
3. Metallic lines shall be exothermically welded and electrically continuous on DIP runs exceeding 100 feet or as approved by the City. Each joint shall have 2 individually welded wires. Exothermic welds shall be installed as follows:
  - Weld only against bare metal adjacent to both bell and spigot ends of pipe.
  - Care must be taken not to remove excess metal when removing the pipe coating.
  - Correct horizontal molds must be used for pipe diameters from 4 to 24 inches in diameter. Pipes 30 inches and larger may use flat mold.
  - After a solid weld is made, coat the bare metal with an acceptable bituminous coating material and cover with exothermic weld cap.
  - Corrosion test stations shall be installed on metallic lines at intervals not to exceed 1,000 lineal feet or as specified on the approved plans.
  - Minimum length of pipe for installation shall be 5 feet

## **C. Ductile Iron Pipe Fittings**

In addition to requirements set by these standards, fittings shall be constructed per the following requirements. Flanged and mechanical joint fitting bolt threads and nuts shall be coated with an approved bituminous material.

Transitions between DIP and PVC may be made by the use of a DIP repair sleeve or a PVC pipe spigot may be inserted into a DIP bell by cutting off the PVC bevel on the spigot and leaving no more than a  $\frac{1}{2}$  inch taper. The City's inspector shall be present to witness this process.

## **6.15 Service Installation**

Water services shall be installed in accordance with manufacturer's recommendations, the Details and with the following provisions.

Services shall be continuous from the main line to the service box. Bends in polyethylene tubing shall be made in a manner that does not crimp or flatten the tubing.

Taps, service saddles and fittings attached to mains shall be separated from each other by a minimum of 24 inches.

Service saddles shall be wrapped and sealed in 8-mil minimum thickness polyethylene and backfilled with sand. Use pipe wrap tape to secure and seal the polyethylene wrap.

Service lines shall be encased in 8-mil minimum thickness poly tubing. Use pipe wrap tape to secure and seal the polyethylene wrap.

Service manifolds shall be constructed per the following criteria:

1. Where a service line is extended a distance greater than 40 feet, a construction jumper shall be installed per the standard details. The new service line and manifold shall be tested in accordance with these standards.
2. Where a service line is extended a distance less than 40 feet, the extension shall be cleaned, swabbed with chlorine and flushed in the presence of the City. The new service line and manifold shall be pressure tested in accordance with these Standards. In both cases, the installation shall be fully restrained by an approved restraint system, starting at the main and as required by the approved Improvement plans.
3. Service lines and manifolds 3 inches and larger shall be ductile iron.
4. No water shall be drawn through a service prior to installation of the water meter and testing of the backflow assembly.
5. A backflow assembly shall be required for construction and sales trailers having a landscape irrigation system or a septic holding tank.
6. Backflow assemblies shall be covered with a freeze protection insulated bag.
7. The curb in front of residential water services shall be stamped with a "W."
8. Service saddles shall be installed with zinc caps on all bolts per these Standards.

## **6.16 Abandonment of Services and Mains**

All water services requiring abandonment shall be disconnected from the main line at the corporation stop unless otherwise approved by the City. Mainline stubs shall have the valve removed and replaced with a blind flange or as approved by the City. The abandoned piping shall be removed or left in place as approved by the City.

## **6.17 Appurtenance Installation**

All appurtenances, including fire protection, blow-offs, sample stations, air release valves and fire hydrants shall be installed in accordance with manufacturer's recommendations, these standards, and the following provisions.

1. All valves, fittings, DIP, copper and underground brass shall be wrapped and sealed in an 8 mil minimum thickness clear polyethylene encasement. Use 8 mil pipe wrap tape to secure and seal to the polyethylene encasement. Damage or scratched surfaces on epoxy coated valves and appurtenances may be repaired with an epoxy kit per manufacturer's

recommendations and to the satisfaction of the City prior to wrapping, otherwise the damaged valve shall be replaced with a new valve.

2. Gate valves shall be centered in one piece 8" riser stock. Riser stock shall be blue PVC C-900. An operator nut extension shall be installed on valves where the operation nut exceeds 40 inches in depth from final grade. Valve extensions shall be continuous and within 24" of finished grade.
3. Buried nuts and bolts shall be coated with a bituminous material. This includes exposed bolts found on manufactured appurtenance (i.e. valve bonnets, etc.) "T" bolt heads do not require coating.
4. Break-away bolts shall be used in connecting the fire hydrant to the hydrant break-off spool. Bolts shall be installed nut side up with the bolts filled and covered with silicone caulking. Clearance shall be made for removal of all bolts.
5. Fire hydrants shall be marked with a blue reflector placed 6 inches off the street centerline on the fire hydrant side of the street. Fire hydrants located at intersections shall be marked on both streets.
6. Fire hydrants use a yellow factory applied coating.
7. Dead end lines, permanent and temporary, shall have a blow-off.
8. Insulating kits shall be installed at transitions between dissimilar metal pipes and as required by the City.

## **6.18 Testing Procedures**

Testing of the water system may proceed only after joint utility crossings are completed, the sewer mains and services have passed pressure test and TV inspections and subgrade elevations have been met. Road bases to be lime-treated shall be pressure tested before and after the lime treatment process. Testing prior to subgrade placement may be subject to additional pressure tests at the discretion of the City. The new system shall be filled with potable water through an approved backflow device. During the filling of the line with water, precautions shall be taken to prevent air pockets at high points.

### **A. Pressure Test**

The contractor shall verify with the City that all system valves are open prior to testing, and the City inspector will be present during the duration of the test.

Water may be allowed to stand in the line for several hours prior to the test. During the test, which shall be conducted for the time period determined by the City Engineer, but not less than two (2) hours, the leakage shall not exceed 5 gallons per 24 hours per thousand feet of pipe per inch of nominal diameter. Test sections shall be as short as valve configurations permit. If any valved section of pipe shows greater leakage than specified, the Contractor shall locate and repair the leaks and shall retest that section of line at no additional cost to the Owner.

All parts of the pipeline installation shall be tested at 100 psi minimum pressure or a pressure of 50 psi above the maximum working pressure. Tests shall be made in the presence of the City Engineer or the City Inspector.

## **B. Topside Improvements**

When all water and sewer infrastructures have passed air, vacuum, pressure, and CCTV inspection the City shall notify the Contractor that the project is ready for road bases and top side improvements. This does not constitute approval for use of the infrastructure.

## **C. Chlorine Disinfection**

Chlorine disinfection shall comply with the the most current American Water Works Association Standard for Disinfection of Water Mains and as specified below.

Disinfection inspections shall begin only after passing the pressure test. Prior to chlorination, pre-flush water mains and services. Pre-flushing is not permitted if using the Tablet Method for chlorination. If the tablet method is permitted by the City Engineer the tablets shall be secured to the top of the pipe with an approved adhesive.

Chlorine shall be drawn through all mains, hydrant runs and services. The City shall verify that a minimum chlorine residual of 50 parts per million has been achieved. Portions of existing mains which have been connected to the new line or otherwise contaminated by the construction shall be included in the system sterilization. During the chlorination process, all valves shall be operated.

After a 24-hour holding period, the City will verify that a minimum chlorine content of 25 ppm remains in the system. Upon approval by the City, the water system shall be flushed to remove concentrated chlorine. Flushing shall be continued until the remaining water has a chlorine residual below 1 ppm and a turbidity equal to or less than 1 NTU. Chlorinated water shall be neutralized to 1 ppm chlorine residual or less prior to discharge. Discharge location and neutralization methods shall be documented in the SWPPP and coordination with and approved by the City.

Chlorinated water resulting from flushing newly installed water lines may only be discharged into the City's sewer system with the specific permission of the City. Prior to discharging into the sewer system, the Contractor shall sign a form authorizing the City to bill for the amount of water discharged into the system. The City shall prepare a bill for water usage based on the meter reading. This bill must be paid before the project is signed off by the City.

The discharged chlorinated water shall be classified as "low-strength metered commercial users". The sewer unit for low-strength metered commercial users shall be one sewer unit per 1,000 cubic feet. The City shall determine the allowable volume of discharge. Chlorinated water shall not be disposed of into environmentally sensitive areas (i.e., under oak trees, vernal pools, man-made or natural streams, drainage systems, etc.) during any time of the year.

All discharges into the sewer system shall be governed by the following conditions:

1. Water used for the purpose of flushing shall be metered.
2. Discharge into the sewer system shall be done in such a manner as to avoid surcharging the sewer system.
3. No discharge into the sewer system shall be permitted on rainy days.
4. No discharge shall be permitted upstream of a small lift station.
5. An approved air gap shall be maintained at all times. Air gap distances shall be calculated as 2.5 times the pipe diameter. In no case shall the air gap be less than 12 inches.

## **D. Water Quality Testing**

Water quality samples shall be taken per the following procedure.

Once flushing has lowered the chlorine residual below 1 ppm and the turbidity is equal to or less than 1 NTU, the water system shall observe a minimum 24 hour detention time. Water may not be drawn during this time period.

After the 24 hour holding period has elapsed, water quality samples shall be collected and processed by a third party laboratory at the cost of the developer.

The laboratory shall conduct a final chlorine and turbidity test. If the sample lot does not meet the minimum chlorine residual and turbidity criteria, additional flushing shall be required. The procedure shall be repeated until the criteria are met.

Bacteriological samples shall be collected from locations approved by the City, which may include, but are not limited to:

- The ends of new mains
- High points in the system
- Representative intermediate locations as directed by the City

Sampling shall be performed by a State-certified laboratory or by City personnel, as directed by the City. The Contractor or Developer shall be responsible for all costs associated with sampling and testing.

A minimum of two consecutive sets of bacteriological samples, collected at least 24 hours apart, shall show satisfactory results in accordance with State drinking water requirements prior to acceptance.

If any bacteriological sample fails, the affected facilities shall be re-disinfected, flushed, and resampled until acceptable results are obtained.

Water mains shall not be connected to the active City distribution system or placed into service until all bacteriological testing requirements have been successfully completed and accepted by the City.

If Coliform is present:

- Results from 0-1,000: Connect to the City
- Results from 1,000-1,250: Flush and rechlorinate water system and retest
- Results 1,250+: Flush and rechlorinate water system and retest

## **E. Tying into the City System**

A tie-in procedure shall be submitted and approved by the City prior to the proposed work. The Contractor shall allow for up to 7 days review of the procedures by the City. The water system shall be tied into the City system within 10 working days upon completing and passing all the testing procedures. Tie-ins shall be conducted as specified in these Standards. After the tie-in has been made, the Contractor shall flush the segment tied-in to the approval of the City.

If the new water system cannot be tied into the City system within 10 working days, the new system shall maintain a chlorine residual of 0.5 to 1.0 ppm or be subject to water quality testing and re-chlorination. This shall be discussed with the City.

On site private systems may connect into the City System upon passing all testing procedures, backflow tests and meters have been paid for and installed. A tie-in procedure shall be required per this Section.

## **6.19 Repairing Installed Improvements**

All PVC and DIP water mains shall be repaired per the following procedures.

Damaged or failed pipe sections shall be removed and replaced with new pipe in the presence of the City. Replacement can be accomplished by the use of City approved ductile iron mechanical joint repair sleeves. Pipe restraints will be required.

After the repair has been completed, the excavation shall be backfilled and compacted to grade as specified. The repairs shall then be retested per these Standards.

At the direction of the City, the Contractor shall repair damage to the polyethylene encasement as described within ANSI/AWWA C-105/A21.5 or shall replace all damaged polyethylene film sections.

## **6.20 Materials**

### **A. Water Main**

Unless noted on the approved plans, all water mains shall be either Polyvinyl Chloride Pressure Pipe (PVC) or Ductile Iron Pipe (DIP).

PVC Pressure Pipe- PVC Pressure Pipe shall be manufactured to a minimum Class 150 rating and shall conform to the "Standard for Polyvinyl Chloride (PVC) Pressure Pipe, 6 inches through 12 inches, for Water" (AWWA C-900), and shall also include the following.

PVC Pressure Pipe shall be blue or white in color and shall have been manufactured within 18 months of installation. The pipe shall be manufacturer date coded and the City provided the manufacturer's coding for translation. Sun damaged pipe may be rejected at the Inspectors discretion.

Rubber rings shall conform to the "Standard Specifications for Elastomeric Seals (Gaskets) for Joining Plastic Pipe" (ASTM F-477).

Approved PVC Pressure Pipe manufacturers include: NAPCO, Certa-Lok, Diamond Plastics Corporation, J-M Manufacturing, Pacific Western pipe, Vinyl Tech-White Knight, Pressure Flex Pipe, PW Eagles, North American Pipe corporation or approved equal.

Ductile Iron Pipe- DIP shall be manufactured to conform to the standards ANSI/AWWA C-150/21.50 thickness design of ductile iron pipe and to "Ductile Iron Pipe Centrifugally Cast in Metal Molds or Sand-Lined Molds for Water and Other Liquids" (ANSI/AWWA C-151/A21.51) and shall also include the following:

DIP shall be cement-mortar lined in accordance with the standard for "Cement-Mortar Lining for Ductile Iron Pipe and Fittings for Water" (ANSI/AWWA C-104/A21.4).

Approved DIP manufacturers include: McWane, Tyler, US Pipes, Griffin, American, Electrosteel USA, or approved equal.

## **B. Services**

### **Brass Material**

In compliance with California State Assembly Bill 1953 and any amendments thereto, all brass components and pipe in contact with potable water intended to convey or dispense water for human consumption through drinking or cooking shall be "lead free." Compliant brass product shall be marked indicating the product is "lead free." Non-compliant product shall be immediately removed from the construction site.

Brass pipe - Brass pipe shall conform to ASTM B-43 standards. A listing of approved pipe include: Hallstead  $\frac{3}{4}$ " through 2" Red Brass, Cambridge-Lee, Federal WW-351, Wolverine, or approved equal.

Brass fittings- Brass fittings shall conform to ANSI Standard B16.15, B16.24, B2.1, T-94-1 and be a minimum of Class 125. A listing of approved manufacturers include: Lee Brass, Merritt Brass, New England Union Co. or approved equal.

Brass fittings for Copper Tubing - An approved listing for brass fittings for copper tube includes: Jones, Mueller, Ford or approved equal. Parts reference numbers are shown below:

Jones ( $\frac{3}{4}$  through 2): Jones Super Grip CTS x CTS E-2609SG, Jones Super Grip CTS x MIP E-2605SG, Jones Super Grip CTS x GIP E-2607SG, (2 Compression x Compression)

Mueller ( $\frac{3}{4}$  through 2): Mueller-110-CTS H-15403N, Mueller-110-CTS H-15428N, Mueller-110-CTS H-15451N

Ford ( $\frac{3}{4}$  inch through 2 inch):

$\frac{3}{4}$  inch" - Ford Quick Joint CTS x CTS C44-33-Q-NL1 - Ford Quick Joint CTS x MIP C84-44-Q-NL  
2 - Ford Quick Joint CTS x FIP C14-77-Q-NL (2 Compression x Compression)

## **C. Copper Tubing**

Copper tubing shall be seamless, annealed copper tube and shall conform to ASTM B88 "Standard Specification for Seamless Copper Water Tube" and shall be Type K. Copper shall be grade UNS-C12200. For diameters ranging from  $\frac{3}{4}$  to 1", inch, use Type K Roll Soft Copper. For diameters ranging from 1  $\frac{1}{4}$  to 2", inch, use Type K Soft 20 Sticks. Approved tubing includes: Cambridge Lee, Mueller Streamline, Aqua Shield or approved equal.

## **D. Corporation Stops**

Corporation Stops shall be male, iron pipe thread by compression and full throat ball valve design. A corporation stop shall be installed at the water main for all service laterals 2 inches and smaller. Approved manufacturers of corporation stops include: James Jones, Mueller, Ford, or approved equal. Curb Stops

Approved curb stop manufacturers include: Jones, Mueller, Ford, or approved equal. Service Saddles

PVC Pressure Pipe Service Saddles manufacturers include: Smith-Blair, Jones, Mueller, Ford, or approved equal.

**E. DIP Service Saddles manufacturers include: Smith-Blair, Jones, Mueller, or approved equal. Appurtenances**

In compliance with California State Assembly Bill 1953 and any amendments thereto, all brass components and pipe in contact with potable water intended to convey or dispense water for human consumption through drinking or cooking shall be "lead free". Compliant brass product shall be marked indicating the product is "lead free". Non-compliant product shall be immediately removed from the construction site.

**Air Release Valves**

Air release valves shall be epoxy coated vacuum breaktype. A listing of approved manufacturers includes: Crispin, Valvematic, or approved equal.

**Backflow Assembly**

Backflow Assemblies shall be listed on the "List of an Approved Backflow Prevention Assemblies" published by the University of Southern California.

**Backflow Assembly Support Stands**

Placer Waterworks series PW/PS or approved equal.

**Backflow Assembly Support Stand Saddles**

Placer Waterworks series PW/SDL or approved equal.

**Backflow Assembly Color:**

All brass/copper backflow preventer assemblies shall be painted a "Forest Green" color to provide a deterrent to theft with the proper outreach to recyclers.

**Blocking for Boxes**

A listing of approved materials includes: Slump Block-4 inch x 4 inch x 15 ½ inch, or approved equal.

**Blow-Off**

Approved manufacturers and products include: 2" Waterous Resilient Seat valve or approved equal.

**Fittings**

PVC- Unless otherwise specified or shown on the approved plans, all fittings to be used with PVC Pressure Pipe shall conform to the standard for "Ductile Iron Compact Fittings for Water and Other Liquids" (ANSI/AWWAC-153/A21.53 for MJ compact fittings; C110 for flange fittings). Approved fitting manufacturers include Sigma, Star, Tyler, Union and US Pipe.

All ductile iron fittings shall be mortar lined in accordance with the standard for "Cement Mortar Lining for Ductile Iron Pipe and Fittings for Water" (ANSI/AWWA C-104/A21.4).

All fittings shall be wrapped and sealed in accordance with these Standards.

The Contractor may use a ductile iron mechanical joint flange adapter designed for AWWA C-900 pipe with connecting PVC Pressure Pipe to flanged fittings or flanged valves. Pipe ends must be cut smooth and square with no bevel. The joint shall be restrained to the PVC pipe using an approved restraint method.

Ductile Iron Pipe- Unless otherwise specified or shown on the approved plans, all fittings to be used with DIP shall employ either mechanical joints or restrained joints conforming to the standard for "Ductile Iron Compact Fittings for Water and Other liquids" (ANSI/AWWA C-153/A21.53). Approved fitting manufacturers include Tyler, Union, and US Pipe.

All ductile iron fittings shall be mortar lined in accordance with the standard for "Cement Mortar Lining for Ductile Iron Pipe and Fittings for Water" (ANSI/AWWA C-104/A21.4 – Double thickness mortar).

All fittings shall be wrapped and sealed in clear polyethylene encasement in accordance with these Standards.

### **Freeze Protection for Backflow Assemblies**

The backflow assembly freeze protection materials shall be comprised of the following:

Laminated forest green fabric conforming to Herculite #10 by HerculiteProducts (fabric shall be a minimum of 10.6 oz/sq. yd.), or approved equal. Brass Rolled Rim Grommet and spur washer by Astrup, or approved equal. Polyester thread with a minimum strength of 14.2 pounds, Coats American'sStar Ultra product line, or approved equal. Fiberglass insulation R-19 rated, 6 inch minimum thickness. 2 inch minimum width Velcro, or approved equal. Nylon zip ties.

### **Gaskets**

Gaskets shall conform to the following specifications:

Flange Gaskets – Flange gaskets shall be neoprene rubber, red rubber, USPipe, Flange Tite, or approved equal.

Push On Gaskets – Pipe manufacturers recommendations.

MJ Gaskets – Pipe manufacturers recommendation.

### **Hydrants**

Hydrants shall be wet barrel type – lead free. Exterior shall be have a factory applied yellow (or Red) coating. Caps shall be cast iron. Approved hydrants include: Clow 960 or approved equal. The Part Number shall contain the letter "NL" to indicate the hydrant is lead free.

### **Hydrant Bury**

Hydrant buries shall be ductile iron mechanical jointed crossflange, cement-mortar lined per manufacturers recommendation and per AWWA C104. A list of approved hydrant buries include: South Bay Foundry MJ x Size, Clow MJ x Size or approved equal.

### **Hydrant Bury Extensions**

Hydrant bury extensions shall only be used with prior City approval.

### **Location Stakes**

A list of approved off-site location stakes include: Carsonite-, 4 inch x 5 feet with anchor barb kit, Caution stickers attached and organization decal, City of Gridley-Call Before Digging-, or approved equal.

### **Main Line Valve Lock-Out**

A list of approved manufacturers and part reference numbers include: SW Services PC800, DC600, or approved equal.

#### **Manhole Frame and Cover**

A listing of approved manufacturer and part reference number includes: South Bay Foundry (SBF1957-W), GMI CompositeFrame and Cover 2600 and 3800 series, or approved equal.

Manholes constructed outside of paved area shall use a GMI composite lid and frame.

#### **Meters**

All meters shall be purchased through the City.

#### **Meter Idlers**

Meter Idlers shall be coordinated with the City to be the same brand as City provided meter.

A listing of approved meter idler manufacturers include: Ford,Jones, Spears, or approved equal. Part reference numbers are shown below:

#### **Meter Setters**

Meter Idlers shall be coordinated with the City to be the same brand as City provided meter.

Meter Spud Couplers

Meter spud couplers shall be coordinated with the City to be the same brand as City provided meter.

#### **Nuts and Bolts**

Flange Bolts and Nuts-Flange bolts and nuts shall conform to a minimum ASTM #A307. Bolts less than  $\frac{3}{4}$  inches in diameter shall be a minimum Grade B (heavy hex). Bolts  $\frac{3}{4}$  inches and larger in diameter shall be a minimum Grade A (standard hex).

#### **Hydrant Bolts**

Hydrant bolts shall be Hollow Break Away and per manufacturer's recommendation.

**Meter Bolts** are to be stainless steel, Grade 316 with brass nuts.

**Tee Bolt**- Steel bolts are to be  $\frac{3}{4}$  inch high strength, low alloy steel with a heavy nut, conforming to AWWA Standard C-111-90.

#### **Nylon Bushings**

Nylon bushings shall be 76-76R, 2  $\frac{1}{2}$  inch MIPT x 2inch FIPT.

#### **Patching Material**

A listing of approved manufacturers and part reference numbers for patching Dip include: Cop-Coat CarboLine Company (Bitumastic No. 50, Coal Tar), Coppers Coat 50, or approved equal.

#### **Pipe Wrap Tape**

10 mil vinyl tape manufactured by Calpico Inc. (Calpico VI-10) or approved equal.

#### **Polyethylene Encasement**

Black non-colored polyethylene film shall be used. The polyethylene film shall have a minimum thickness of 8 mils. The thickness shall not be less than 10 percent of the nominal

thickness. The polyethylene shall be in either tubular or in sheet form. Polyethylene film shall be manufactured from a Type 1, Class A raw polyethylene material conforming to "Polyethylene Encasement for Ductile-Iron Piping for Water and Other Liquids" (ANSI/AWWA C-105/A21.5). Approved manufacturers include: Fee Spec's-LP378D Northtown, Fulton Enterprise Inc., Global Polymer Tech, Unisource, or approved equal.

#### **Pressure Regulators**

A listing of approved all brass pressure regulator systems include: Watts (3/4 inch through 2 inch, UB5-series), Wilkens (3/4 inch through 2 inch 600 series, 2 1/2 inch through 3 inch 500YSBR), or approved equal.

#### **Reinforcement Bar**

Rebar shall be grade 40 steel, deformed type. Smooth bar shall not be allowed. All rebar shall be number four unless otherwise specified on plans.

#### **Restraints**

PVC - Approved restraint systems for PVC Pressure Pipe include: NAPCO Certa Lock (for straight runs only), Romac Grip Rings, EBAA Iron Series 2000 PV, Sigma One Lok Series "SLC", DR18JM Eagle Loc, eagle lock, PVC Star Grip 4000 series, (See section 81- 16,H for additional conditionally approved options) or approved equal.

DIP - Approved restraint systems for DIP include: Field Lock Gaskets(3 inch through 12 inch diameter only), Mega Lug 1100 Series, TR Flex,sigma One Lok Series "SLD", Star Grip 3000 series, American Fastite Joint Assembly or approved equal. If Field Lock gaskets are used it requires pulling back the slack in the pipe.

#### **Riser Aligners**

Riser aligners shall be per the City Standard Details.

#### **Riser Stock for Curb Stops**

Riser stock shall be schedule 40 PVC, SDR 35 or C-900. The riser shall be 4 inch diameter inside meter boxes.

#### **Riser Stock for Main Line Valves**

Riser stock shall be 8 inch diameter PVC C-900 for all main line valves.

#### **Service Boxes**

All box lids are to be permanently marked with the appropriate label (i.e., Water, ARV, Blow-Off, CPT, etc.). Lids shall have a 1 7/8 inch hole offset at upper 1/3 portion of lid measured along the longaxis. In commercial project, meter lids shall be stenciled with the number address it serves. The numbers shall be painted using white enamel paint and 2 inch stenciling. A list of approved box manufacturers include: Carsonite, Christy, BES, Armorcast, CDR, Placer Water Works, or approved equal.

#### **Traffic Boxes**

A list of approved traffic box manufacturers include: Bes, Christy, Placer Waterworks or approved equal.

#### **Tracing Wire**

Tracing wire shall be light blue in color and minimum 12 gauge solid copper with UF rated plastic insulation.

#### **Tracing Wire Mastic Tape Seal**

Tracing wire mastic tape shall be 3M Mastic Tape #2229 or approved equal.

#### **Valves**

Butterfly Valves- Butterfly valves to be used on pipe diameters ranging from 12 inch to 72 inch. A list of approved valves include: Standard Pratt Ground Hog, with MDT Traveling Nut Actuator, Mueller Lineseal III, Dezurik butterfly valve with square nut actuator,(LA series) , or approved equal. NOTE: All valves shall be Holiday freeepoxy, interior lining and standard black asphalt varnish exterior. Certification shall be provided by the valve manufacturer stating the epoxy lining is holiday free. The epoxy coating shall be spark tested and approved for installation by the City inspector.

Gate Valves- Gate valves used on diameters ranging from 3 inch to 12 inch shall be grey cast iron or approved equal. A list of approved valves includes: M & H 4067 RW Gate Valve, Mueller-A-2360 RS GateValve, Clow, AFC or approved equal.

2 part epoxy repair kit shall be provided by valve manufacturer.

#### **Valve Boxes**

All valve boxes in street and other traffic areas shall be designed to H-20 loading conditions. A list of approved manufacturers and part reference numbers include: Christy (Type G5, Type B 17 by 30 H-20), BES, Brooks, D&L (#K-6004), or approved equal.

## Section 7 Sanitary Sewer

### 1.1 General

These standards shall apply to the engineering design and construction of all sanitary sewer system to be maintained by the City, or with those exceptions as noted, within private multiple ownership residential or multi-parcel commercial and industrial developments.

All work shall be installed in accordance with the requirements of these standards, as recommended by the manufacturer, the California Building Code, the California Plumbing Code. These standards and manufacturer's guidelines shall be present at the construction site at all times.

### 1.2 Connect to Existing Facilities

Connection to existing City sewer facilities shall be made after approval of construction and bypassing plans from the City Engineer, and all permits have been issued.

The City has the option of making any system tap as required on the plans. Should the City elect to perform the tap, the Contractor shall pay for such work on a time and materials reimbursement basis. The Contractor shall be responsible for the following tasks associated with the tap, and as determined by the City.

1. Coordinating the work requested with the City. This shall include discussions on provisions for materials and equipment required to complete the work.
2. Traffic Control per the City's requirements.
3. Excavating the work area, as agreed upon by the City.
4. Sheetig, shoring and bracing as required.
5. Lighting as required if the tap is to be performed at night.
6. Backfilling, compacting and pavement restoration of the excavations upon tap completion.
7. A bypass pumping plan, with a secondary back up pump as required. A bypass pumping plan must be submitted to and approved by the City Engineer. Anticipated Flows rates and pump capacity shall be shown on the plan. Sections of existing surcharge pipe may be encountered in the system.
8. Bypass pumping operations shall be monitored full time at the cost of the Contractor.

#### A. Existing Sewer Stubs and Sewer System Outfalls

The contractor shall excavate and connect to an existing sewer stub in the presence of the City. Existing stubs shall be air tested by contractor and CCTV'd by the Contractor before connecting. If an existing stub is found damaged or otherwise exceeding tolerances, the contractor shall remove and replace the stub prior to connecting. Contractor shall incur all expenses. A note to this effect shall be placed on the improvement plans.

Sewer system outfalls shall be mechanically plugged and grouted. The plug shall remain in place until final acceptance by the City.

## B. Construction Staking

The sewer main shall be staked prior to installation. Such staking shall provide the station and offset to the sewer main, as well as the cut to the nearest 0.10 foot. Stakes shall be provided at a minimum of every 100 feet in tangent sections and every 25 feet in curved sections, and every 10 feet in approved vertical curve sections, and at all appurtenances or structures.

## 1.3 Average Flow Determination

The determination of average dry weather flows for design purposes shall be based upon the best available information concerning land use and density as determined by the City. This information may include approved land use and density in accordance with current zoning in the absence of more specific information pertaining to expected development. Average dry weather flow factors are listed in Table Error! **No text of specified style in document.**-1.

*Table Error! **No text of specified style in document.**-1 Flow Designation*

Land Use Designation	Units	Flow Factor (gpd/unit)
Commercial	gpd per acre	850
Industrial	gpd per acre	850
Agricultural	Gpd per acre	600
Neighborhood Center Mixed Use	gpd per acre	2,300
Public/Quasi-Public	gpd per acre	660
Schools	gpd per acre	170
Residential (All)	gpd per DU	250
Open Space	gpd per acre	0
Parks > 10 Acres	gpd per acre	10
Vacant	gpd per acre	0

\*Includes allowances for I&I

\*\*Future development shall use the factor that results in the highest flow

\*\*\*Factor flow assumes a 30% FAR. 50% for senior living

## 1.4 Design Flow

Design flow sizing of infrastructure 15 inches in diameter and smaller shall be calculated by using the average dry weather unit flow factor(s) listed in Table Error! **No text of specified style in document.**-1 for the upstream service area. Maximum flows shall be based on the ratio of peak to average flows as determined by using a Peak Factor of:

$$PF = 2.8xQ^{(-0.155)} \text{ (Q in MGD)}$$

$$PF = 7.72xQ^{(-0.155)} \text{ (Q in GPM)}$$

For sizing trunk sewers 18 inches in diameter and larger, utilize the hydraulic model of the collection and conveyance system and consult with the City.

## 1.5 Pipe Capacity, Slope, Velocity, Size, Depth and Material

Design criteria for the pipe system are as follows:

### A. Main Sizes

The minimum size sewer main within a residential development shall be 6 inches in diameter. The minimum size sewer main for commercial and industrial developments shall be 8 inches in diameter.

### B. Slope and Velocity

Manning's formula shall be used to determine the relation of slope, design flow, velocity, diameter, and "n" value. The "n" value shall not be less than 0.013 for all pipe materials.

Table Error! No text of specified style in document.-2 provides minimum slopes and design flow capacities for various pipe diameters. Pipe slopes less than those listed in this table shall not be used without the approval of the City. The slopes indicated are based on a velocity of two feet per second with the pipe flowing full.

*Table Error! No text of specified style in document.-2 Minimum Slopes*

Pipe Diameter (in)	Slope (Ft/ft)	Capacity at 0.7 Depth (MGD)	Capacity Flowing Full (MGD)
6	0.0050	0.22	
8	0.0035	0.38	
10	0.0025	0.58	
12	0.0020	0.85	1.00
15	0.0015	1.32	1.60
18	0.0012	1.95	2.35

The maximum depth of flow at design conditions in any lateral 10 inches in diameter or less shall be 70 percent of pipe diameter. Lines 12 inches in diameter or larger may be designed to flow full unless direct sewer connections are planned, in which case the 70 percent pipe diameter maximum depth of flow shall govern.

All sanitary sewer pipe shall be designed for a minimum scour velocity of 2 feet per second at peak flows. The volume of wastewater within the pipe system as determined above shall be used when designing pipe slopes. Maximum design velocity shall not exceed 10 feet per second.

### C. Capacity

Pipe capacity, in all cases, shall be adequate to carry the Peak Wet Weather Flow (PWFF) from the entire tributary shed area even though said area may not be within the project boundaries.

**Commented [A(H1]:** Include sphere of influence?

### D. Hydraulic Grade Line

The hydraulic grade line shall be determined from the design flows, based upon 100 percent development of the tributary area. Hydraulic grade line calculations must be submitted for the design of all lines 12 inches in diameter or larger.

## **E. Depth**

Sewer mains with service lateral shall not exceed a depth of 15 feet. The system shall be designed to provide a minimum slope for sewer services of  $\frac{1}{4}$  inch per foot with a minimum cover of 12 inches at any buildable location within the properties to be served. Proposed building pad elevations shall be a minimum six inches above the lowest upstream manhole rim. Where the building pad does not meet the elevation requirement, a backwater valve for the building shall be required. The backwater valve shall be noted on the improvement plans and building plans. Installation shall be made during construction of the underground improvements. Deed restrictions shall be put in place which hold the City harmless for failure of the backwater valves on such lots.

## **1.6 Manhole Criteria**

The design criteria for manholes are as follows. Manholes shall be placed at the intersection of all sanitary sewer lines, at the upstream end of a pipe run, and at the end of any temporary line more than 200 feet in length. No more than three lines may enter a manhole with one line exiting. Pipes shall be aligned so that there is sufficient spacing between each pipe entry on the barrel section.

### **A. Spacing**

Maximum spacing of manholes shall be 500 feet for all straight lines of 10 inches in diameter or less. Manhole spacing for mains 12 inches and larger shall be considered on a case-by-case basis. A line with a radius greater than 400 feet shall be considered as straight for purposes of this section. Manhole spacing on curved lines of 200-foot radius (minimum allowable) shall be 200 feet. Manhole spacing on curved lines of radii between 200 and 400 feet, or where only a portion of the line is curved, shall be adjusted proportionately. Reverse curves require a manhole at the point of tangency of the curves or as determined by the City. A manhole shall be required at any change in vertical alignment, pipe size or change of direction unless approved by the City.

### **B. Invert Elevations**

The invert elevation for pipe of the same diameter entering a manhole shall have a 0.10-foot drop between the entering and exiting pipe. Under special circumstances, the 0.10-foot drop may be waived with the approval of the City. Mains with 10 or fewer services shall enter manholes at an invert to crown match with the exit pipe. Lateral mains entering trunk mains, as defined by the City, shall enter manholes at an invert to crown match with the exit pipe.

### **C. Manhole Sizing**

A standard 48 inch manhole with a 24 inch access opening shall be used for sewer mains 12 inches and smaller, and not exceeding 20 feet depth. A 60 inch manhole with a 36 inch opening shall be used for sewer trunk mains 15 inches to 36 inches in diameter. The design of larger trunk mains shall be approved on a case-by-case basis.

### **D. Manhole Coatings**

Manhole coatings shall be required in areas determined to have a potential of generating excessive sulfide gases. Such manholes shall include, but are not limited to, all manholes on trunk mains 15" in diameter or larger, the first manhole originating from a sewer trunk main

15 inches in diameter or larger, force main transition manholes, manholes designed with inside drops, or as determined by the City.

#### **E. Manhole Access**

Provisions must be made to prevent vegetation from overgrowing the manholes. An all-weather 10-ton vehicular access shall be provided to each manhole as required by the City. Turning radii of 30 feet inside and 45 feet outside, and a vertical clearance of 14 feet are required.

#### **F. Connection to City Mains**

Improvement plans which require a tap to an existing City sewer main shall specify that such connection be performed by City forces on a time and materials basis.

### **1.7 Drop Connection Criteria**

Drop connections shall be permitted under special conditions and with the approval of the City. There shall be no more than one inside drop connection into a 4-foot diameter manhole. If an elevation difference of at least 3 feet is not available, the slope of the incoming line shall be increased to eliminate the need for the drop.

### **1.8 Mainline Transitions**

Mainline transitions shall be made at a sewer manhole.

### **1.9 Sewer Service Design**

The design criteria for sewer services are as follows.

#### **A. General**

Services shall be designed and constructed per the City standard details. The service shall extend from the main to the edge of the public right-of-way or easement. The service shall be stubbed up at the public right of way and the cleanout shall be constructed per the City standard details. The customer is responsible for and owns the lateral from the sewer main to the building which is being serviced. Services shall extend two feet beyond edge of pavement of private roads. Easements of adequate width to accommodate the service shall be obtained. A plan and profile of services shall be supplied to the City on request.

Cleanouts shall be designed and constructed to grade with subdivision improvements or at the time connection is made to the building sewer. Unless otherwise noted on the plans, construction of the cleanout to grade is the responsibility of the contractor for the subdivision improvements. If installation of the cleanout is deferred, the plans shall call for the placement of a 2-inch by 4-inch post at the end of the service sewer extending from the flow line to not less than 12 inches above ground surface. The service shall be plugged at right of way and an 18" diameter coil of #12 tracer wire shall be buried at the end of the service.

#### **B. Sizing**

The minimum size service for single-family developments shall be 4 inches in diameter. Services greater than 100 feet in length shall be 6 inches in diameter. Schools, commercial, industrial, and multiple residential properties shall be served by a minimum 6-inch diameter service.

### **C. Connection to Sewer Mains**

Residential services shall connect to the sewer main by means of a factory fitting. Properties with services located at the end of cul-de-sacs shall enter a manhole. A 6-inch service shall enter a 6-inch main by means of a manhole. A 6-inch service entering an 8-inch or larger main must either be connected with a manhole or by means of a factory fitting with a manhole placed at the property line. Services 8 inches in diameter and larger shall be connected to the main by use of a manhole. In no case shall a service connection be made with the use of a tee.

### **D. Connection to Existing Sewer Mains**

The City reserves the right to make all sewer service taps onto existing mains after approval and payment of the required connection fees. If the City elects to utilize city forces for sewer service taps payment made to the City for such work will be on a time and materials basis. A note to this effect shall be placed on the plan sheet which shows a detail for the area that requires such tapping. The application shall be made to Public Works. Connection fees shall be paid prior to submittal of the application. All excavation, backfill, and the installation of the remainder of the sewer service or stub shall be performed by the Contractor.

### **E. Connection Limitations**

Sewer services shall connect to 12-inch diameter and larger pipe or to lines more than 15-feet in depth at a manhole. Direct connection to trunk mains shall only be with the approval of the City.

### **F. Location**

A sewer service shall be constructed to each lot. In new subdivisions or developed areas, unless specifically requested otherwise in writing, sewer services shall be placed on the low side of a typical subdivision lot or similar parcel with 2 percent or greater slope across the front, or shall be placed in the center of lots of lesser slope. Trees, improvements, etc., are to maintain a minimum of 5' from the sewer service, including the cleanout and where the sewer service is extended to service the house.

If the property is located such that service is available both to a line located in an easement and in a right-of-way, service shall be at the latter location unless otherwise approved by the City. No sewer service shall be located such that future on-site construction will result in the line being in such proximity to a water well or water main or service that applicable health standards will be violated.

### **G. Depth**

Adequate depth of sewer service at the edge of easement or right-of-way to service the intended parcel shall be verified. A depth of 3 feet to crown of pipe, measured from gutter flow line or edge of adjacent roadway, whichever is lower, shall be considered the standard for service sewer depth, except where the water main is to be installed at back of sidewalk as part of the subdivision improvements. In such cases, service shall have a minimum depth of cover of 4-feet 6-inches at the property line and the service shall be extended to a minimum of 7 feet back of sidewalk with the cleanout to grade remaining within 2 feet of back of sidewalk. When greater depth is required, the invert elevation of the service sewer at the edge of the right-of-way or easement shall be noted on the improvement plans. If a joint

trench is being utilized for other utilities, the plans shall indicate that a joint trench will exist and service elevations shall be adjusted accordingly.

Sewer service connection to the main 14 feet or deeper, shall place concrete around the haunch of the "wye". Sewer service connection to the main shall not exceed 15 feet.

#### **H. Special Requirements in Developed Areas**

In developed areas, a sewer service shall be provided to each parcel participating in the project which contains a source of sewage less than 200 feet from a lateral. A property owner's request for service location shall be honored whenever practical. Parcels which have two or more sources of sewage must have an independent sewer service provided for each sewage source which can be separated from the rest of the parcel and sold. A service shall be provided to each lot. During the design period, each property owner affected by the proposed work shall be contacted in writing to determine the preferred sewer service location. In the absence of a response, a sewer service shall be provided in accordance with these standards. In addition, upon staking the location of the proposed sewer services prior to construction, each property owner shall be given a final opportunity to approve the proposed sewer service location. A compilation of this information shall be furnished to the City.

#### **I. Warranty Inspection of Sewer Main Stubs**

As a requirement, sewer stubs are provided to subdivisions as a courtesy by developers during the construction of backbone infrastructures in streets to prevent cutting up the newly paved streets when the subdivisions are ready to develop. These stubs become an integral part of the sewer system of the subdivisions and subsequently the responsibility of the developers of the subdivisions and are therefore imperiled to both construction and warranty inspections. This practice saves future developers construction time and cost that would have otherwise been spent on tie-ins and street repairs and in some instances prevents delays in the event a street has a moratorium. Since these stubs are provided at no cost to future developers, it is our position, hence our policy, that it is the responsibility of contractors to test and repair these stubs, if found damage, prior to tie-ins. A note to this effect shall be placed on the improvement plans.

#### **J. Grease Interceptor**

A grease interceptor shall be required for any business having the potential of producing grease as specified in the Gridley Municipal Code. Minimum size of the interceptor shall be 1000 gallons. Sizing of the interceptor shall be based on the current edition of the California Plumbing Code adopted by the City.

General Commercial/Retail buildings shall require dedicated grease lines for future use. A location for the future grease interceptor shall be identified on the improvement plans.

**Commented [AH2]:** Not in muni code? Add?

#### **K. Oil/Sand Interceptor**

An oil/sand interceptor shall be installed for any business having the potential of producing oil and sand waste resulting from routine maintenance as specified in the Gridley Municipal code. Minimum size shall be 450 gallons. Sizing of the interceptor shall be based on the current edition of the California Plumbing Code adopted by the City.

**Commented [A(H3):** Would need to be added

#### **1.10 Canal Crossing Design**

**Commented [A(H4):** Include? Or leave these requirements to the RD's?

Advance approval of the City Engineer, and other appropriate agencies is necessary to initiate design. The criteria for creek crossings are as follows.

**A. General**

In all cases, the proposed future creek/irrigation ditch bed elevation shall be used for design purposes. Crossing details of pipe, piers, anchorage, transition couplings, etc., shall be shown on a detail sheet of the plans. The top of pipe shall have a minimum of 3 feet of cover at the shallowest point of the crossing.

**B. Gravity Mains**

For line sizes 10 inches and smaller, ductile iron pipe shall be used under the full creek width plus 10 feet each side. For line sizes 12 inches and larger, pipe used shall be as determined by the City. The ductile iron pipe shall be supported by steel I-beam piles. The steel I-beam pile shall be installed to a yielding depth as recommended by the soils engineer. Each stick of pipe shall be supported by a least one pile or as approved by the City Engineer. A steel plate shall be welded on top of the I-beam. A  $\frac{1}{2}$ -inch thick polyethylene pad shall be installed on top of the steel plate for the pipe to rest on. The pipe shall be held by two 2-inch wide galvanized steel straps, with galvanized bolts attached through the steel plate and polyethylene plate. An insulating material shall be used between the pipe and the section of strap coming into contact with the pipe. All exposed surfaces shall be coated with coal tar epoxy. A layer of 4-inch to 8-inch cobbles shall be placed and compacted on the top surface of the trench area for the full width of the creek. A trench plug shall be required at the top of the pipe at the downstream side of the crossing. The plug shall be a minimum of 4 feet in length, and shall extend 24 inches beyond the width and depth of the trench.

**C. Design**

Calculations shall be submitted which clearly indicate the design of the pipe and supports regarding impact, horizontal and vertical forces, overturning, pier and anchorage reactions, etc.

## **1.11 Pump Station and Force Main Requirements**

Every phase of pump station design, including force main design, shall be closely coordinated under the direction of the City Engineer. The pump station and force main shall be designed and submitted concurrently. The plan sheets will show the general layout and control system required for a typical acceptable sewage pump station. The plans shall call out the testing required for acceptance of the pump station.

**A. Location**

The pump station and facilities shall maintain a minimum 100- foot separation from existing and proposed residential and commercial structures. Adequate maintenance access shall be provided to the pump station. The access design shall consider requirements for the removal of pumpstation equipment.

**B. Capacity**

The pump station shall be designed to accommodate ultimate buildup flows as well as initial flows. Allowances for larger or additional pumping equipment must be made for future requirements. If the design capacity is more than anticipated initial flow, the effects of the minimum flow condition must be estimated to prevent excessive retention of sewage in the wetwell, to prevent septic conditions, and to determine whether the pumping

equipment will operate within the manufacturer's guidelines. Table Error! **No text of specified style in document.**-3 provides planning level criteria for sizing and configuration of pump station and forcemain facilities.

**Table Error! No text of specified style in document.-3 Pump Station and Force Main Criteria**

<b>Pump Stations</b>	
Capacity	PWWF (hydraulic modeling required for pipes 18 inches and larger)
Storage	4 hours
Operation	Lead/lag for duty pump(s), plus 1 standby pump
Maximum Pump Cycles	6 cycles/hour (3 cycles per pump)
<b>Force Mains</b>	
Headloss	Hazen-Williams roughness coefficient (C-factor) of 120
Maximum Velocity	7-10 feet per second
Minimum Velocity	3.0 feet per second

#### **C. Wet Well**

The wet well design and detention time shall be such that the deposition of solids is minimized and the sewage does not become septic. Provisions for 4 hour storage capacity shall be provided. An interior protective coating shall be required for the prevention of hydrogen sulfide corrosion of the structure. Maximum depth of wet well shall not exceed 35'.

#### **D. Pumps**

Pumping equipment shall consist of centrifugal pumps. Pump suction and discharge size shall be a minimum of 4 inches in diameter. Pump drive units shall be electric. A sufficient number of pumping units shall be installed such that station capacity can be maintained with any one unit out of service. Provisions for telemetry shall be included in the station control systems directed by the City.

#### **E. Station Piping**

Suction, discharge, and header piping within the station shall be sized to adequately handle flows. Piping less than 4 inches in diameter shall not be used for conveying sewage. Valves shall be located to allow proper equipment maintenance and operation. The design shall provide a bypass configuration back to the wet well.

#### **F. Odor Control**

If required, the station shall have equipment and/or space provided for the purpose of introducing odor control chemicals into the wet well, upstream gravity line, and/or force main. Adequate provisions shall be made for the safe handling and storage of chemical containers. The force main shall be designed to maintain a continuous uphill grade, or, as a minimum be level. All force mains shall have provisions for introduction of either air or odor control chemicals.

#### **G. Force Mains**

Force mains shall be designed such that the velocities normally fall within a range from 3 to 5 feet per second. If initial capacity of the station is considerably less than ultimate,

consideration should be given to the prevention of septic conditions due to extensive detention time within the forcemain. The feasibility of installing dual force mains to accommodate initial and ultimate flows shall be investigated in such situations. Provisions shall be made introducing a "cleaning pig" into all force mains. The design shall also include facilities to eliminate or sufficiently dampen transient forces and/or surging in the event of an immediate station shutdown. Details shall be included in the improvement plans. The maximum angle allowed on force mains is 22.5 degrees.

A corrosion protection study shall be included with the improvement plan submittals. Corrosion protection facilities for the force main shall be identified from the roadway with a curb stamp labeled "CP – FM".

#### **H. S.C.A.D.A.**

SCADA requirements for pump stations shall be provided by the City. The submittal shall be included along with the improvement plans for such facilities.

#### **I. Valves**

Valves on pressurized sewer systems shall be check valves.

### **1.12 Multi Parcel Commercial and Industrial Developments**

"On-site" sewer mains for new commercial and industrial developments containing more than one parcel, shall be designed in accordance with the requirements contained in these standards or as approved by the City. The sewer main shall be installed within a dedicated public sewer easement in accordance with these standards. Each separate parcel within a multi-parcel commercial or industrial development shall have a separate connection to the public sewer line(s).

### **1.13 Sewer Improvement Plan Requirements**

Plans for the construction of sanitary sewers, whether in conjunction with other improvements or for a sewer project only, shall conform to these standards, and meet the following requirements.

**Commented [A(H5]:** Do we want to keep the sewer study requirement?

#### **A. Sewer Study**

A sewer study or sewer master plan as determined by the City may be required prior to review of the sewer design if there is a possibility that upstream or adjacent areas might require service through the subject property. The map shall show the entire area including upstream tributary and adjacent areas, and all other data necessary to determine anticipated sewage flows. The method of providing service to the entire service area, including pipe sizes and slopes, shall be shown to the extent necessary to determine the requirements within the subject property.

#### **B. General Requirements**

Plans for sewer improvement projects shall include a layout sheet, plan and profile of each public sewer line, and necessary detail drawings.

#### **C. Layout Sheet**

Improvement plans shall include an overall map which shows the project boundaries, sewer lines, manholes, backwater valves, and other important items of the work.

A parcel which benefits from and financially participates in a sewer construction project, but is not included within the project boundaries, shall have a note to this effect placed on the layout map and on the plan and profile sheet if the parcel appears thereon. Parcels which make use of those facilities may be subject to additional fees at the time of connection, if the participation has not been so noted.

## 1.14 Pipe Bedding

Conform to City Standard Detail SS-05 for Sewer Pipe Bedding.

- 1) Bedding shall provide uniform and continuous support along the barrel of the pipe. The minimum depth of bedding material shall be provided under the bell. Blocking of the pipe is not permitted.
- 2) Loose material shall be removed from the trench bottom and replaced with imported material.
- 3) Where rocky, unyielding or unsuitable foundation material is encountered, the subgrade shall be over-excavated a minimum of 4 inches and replaced with imported bedding material.
- 4) Where the trench bottom is soft, yielding or unstable, the trench bottom shall be over-excavated by 4 inches and  $\frac{1}{4}$ -inch crushed rock shall be placed in the trench to provide a stable foundation, to the satisfaction of the City Inspector. The rock is in addition to the required pipe bedding used in the pipe zone.
- 5) Where a saturated trench condition is encountered, the trench wall and pipe shall be lined with a geotextile fabric as shown on Standard Detail SS-05, and to the satisfaction of the City Inspector.
- 6) Bell holes shall be excavated per the manufacturer's recommendations. The minimum depth of bedding material shall be provided under the bell. Care shall be taken to ensure that the bell hole is no larger than necessary to accomplish proper joint assembly.

**Commented [MH6]:** Sewer pipe bedding should be crushed rock. There are ASTM blends for bedding material. Smaller rock for small diameter pipe. At minimum of 6" or 8" pipe diameter bedding can be 3/4" crushed rock.

**Commented [AH7R6]:** Talk to Ross he wanted sand

## 1.15 Pipe Installation

The sewer system outfall(s) shall be mechanically plugged and grouted, and shall remain plugged until final acceptance. The system shall be constructed to minimize infiltration and inflow. Evidence of groundwater infiltration, excessive wet weather flow contribution, or operational deficiencies may require corrective action at the City's discretion. Sewer pipe (gravity and pressure) shall be installed in accordance with the following provisions:

The Contractor shall keep the pipe interior free from foreign materials and in a clean and sanitary condition until acceptance by the City. At times when pipe- laying is not in progress, the open pipe end shall be sealed with a tight cap or plug to prevent foreign matter from entering the pipe. Provisions shall apply to the break times as well as overnight. Trenches shall be in a reasonably dry condition when pipe is laid.

Care shall be taken, when lowering pipe into the trench, to protect the pipe from damage. Chains are not permitted. The pipe shall be laid carefully to the lines and grades shown without grade breaks, unless designed with such, or to minimum depths shown on the approved plans. If field conditions exist such that the pipe may not be laid to the specified grade, the approved plans will require revisions prior to proceeding with construction.

Pipe sections shall be closely jointed to form a smooth flowline. Care shall be taken in placing the pipe and making field joints.

Improvements installed without proper inspection shall be exposed and inspected as required by the City.

All installations shall follow the manufacturer's recommendations unless otherwise noted on the approved plans. The manufacturer's installation guide shall be on the job site at all times.

A 12 inch wide metallic backfill tape with the warning "SEWER MAIN BURIED BELOW" shall be placed in the trench lines of all mains and services, between the piped bedding and backfill layer.

Mains in unpaved areas shall be marked every 125 lineal feet with a green composite utility marker having a decal stating "CAUTION BURIED SEWER PIPELINE". Appurtenances (such as manholes, valves, ARV's, test stations, etc.) and angle points shall also be marked. Mains in landscaped areas shall be delineated with a brass marker set in an 8 inch diameter concrete cylinder.

#### **A. Polyvinyl Chloride (PVC) Pipe**

Pipe-laying shall proceed upgrade with the bell end of the pipe placed upstream, and shall follow manufacturer's guidelines for installation.

#### **B. Ductile Iron Pipe (DIP) Installation**

DIP for gravity sewer applications shall have an interior coating with "Permashield 431" (or approved equal) unless otherwise specified on the approved plans. DIP sewer systems shall be constructed per the manufacturer's recommendations.

The force main shall be constructed and tested in accordance with the water pressure pipe standards established in Section 6 - Water of these Standards, with the following deviations:

The force main will not require disinfecting or water quality testing. The main shall be pre-flushed again with a properly sized "pig" after the pressure test. Flushing shall occur in the presence of a City Inspector.

Backfill tape shall be 12 inch wide green metallic tape stating "SEWER FORCE MAIN BURIED BELOW".

Exothermic welds shall be made on the bell of the pipe as near to the edge as possible and on the weld pads provided on the spigot end of the pipe.

When it is necessary to cut a "Permashield 431" treated pipe, the City shall make all repairs prior to installation. Coordinate with the City.

All DIP fittings for wastewater use shall have an interior coating with "Permashield-431" Or approved equal.

Tracing wire shall be installed per Section 6-Water of these Standards. Above ground access to the tracing wire shall not exceed 500 linear feet along the main. Access shall be provided by raising and securing the tracing wire through a conduit into a valve box. This location shall be 2 feet minimum from back of walk and marked per standards

### **1.16 Manhole Installation**

Manholes shall be installed in accordance with the Standard Details and as specified herein:

Manholes shall be set flush with finish grade in improved areas, unless otherwise noted on the approved plans. Manholes placed in off-site, unimproved areas shall be constructed with the top of the casting cover a minimum of 6 inches above the final surrounding grade. A minimum 12 inch wide concrete collar shall be constructed around the casting and centered in collar. Manholes may not be placed in the center of intersections in all new development.

Manholes placed in landscape areas adjacent to City improvements shall be constructed with the top of the casting cover a minimum of 6 inches above the final surrounding grade. A minimum 12 inch wide concrete collar be constructed around the casting and 6 inches below finish grade.

PVC pipe entering a sewer manhole shall have a flex joint at the manhole base. A flex joint consists of a bell and spigot joint at the manhole with only bell ends cast into the manhole base, and a second bell and spigot joint located 12 to 24 inches outside of the manhole. Service "Y's" shall not be installed directly onto a manhole.

Manhole lids and castings for 48 inch diameter barrels shall be 24 inch diameter. Manhole lids and castings for 60 inch barrels shall be 36 inch diameter. Lid shall be bolt-down type with 2 cast-in-place bars and a gas detector probe hole, and have no poke holes. Lids shall be bolted when a manhole is constructed outside a paved area, as specified on the approved plans, or as directed by the City. Manholes constructed outside of paved area shall use a GMI composite lid and frame. All manhole openings 36 inches or larger shall use a GMI composite lid and frame.

Sewer mains or services entering an existing manhole shall be core drilled, without exception. The space between the pipe and the manhole shall be filled with non-shrink grout or a core-n-seal boot or approved equal may be used..

Any work on an existing sewer manhole shall require the manhole to pass a vacuum test as described in the Testing procedures of this Section. The work completed shall remain exposed until the vacuum test has been accepted by the City.

Concrete manhole bases may be either pre-cast or cast-in-place. Pre-cast bases shall conform to these Standards. Cast-in-place manholes shall be constructed in accordance with the details provided in these Standards:

Concrete shall be per the most recent edition of the Caltrans standard specifications.

Vitrified Clay Bellied pups set in the manhole base wall shall be set flush with the exterior of the wall. The "speed-seal" on the spigot end shall be cut off prior to setting. Unless specified on the approved plans, there shall be a 0.10-foot drop constructed across the manhole base.

The top of the base shall be formed to accept the first barrel section, wet setting is not permitted. Ram neck shall be installed on this first joint after the City inspector has approved the manhole base for stacking.

The concrete on cast-in-place bases plus a 1 foot barrel section shall cure a minimum of 24 hours before stacking the remaining barrel sections.

### C. Adjusting Manholes

The manhole neck and frame shall be adjusted to grade and be a maximum of 18 inches. Use of metal grade rings is not permitted.

**Commented [MH8]:** Is a sheer coupling with metal band also acceptable? Otherwise you waste pipe.

**Commented [AH9R8]:** Dave?

#### **D. Frame and Lid**

The manhole frame and lid shall be sealed with an approved rubber gasket, as required. Manholes constructed in streets shall have the lid bolt holes filled with silicone. Manholes constructed outside of the street or paved area shall be bolted down or closed by other locking mechanism.

#### **E. Manhole Coatings**

Approved materials include epoxy or calcium aluminate.

Epoxy Coating - Sewer manholes requiring an epoxy coating shall first pass a vacuum test, per these Standards, and shall then be constructed as follows:

The exterior of the manhole shall be coated with an asphaltic material and wrapped in 8 mil polyethylene sheeting prior to backfilling. Use 10 mil vinyl tape to secure and seal the polyethylene per Section 5 of these Standards.

All voids and imperfections in the interior of the manhole shall be mortared or "sacked" smooth with a cement paste composed of 50 percent Portland cement and 50 percent sand. The mortar mixture shall be manually worked into the dampened surface with sufficient pressure to completely fill voids and imperfections. The surface shall then be finished smooth.

This process shall be continued until the entire manhole surface(base, barrel, cone, neck and joints) is smooth and free of imperfections. Note that it is not required to cover the entire interior surface area of the manhole, only where voids or imperfections exist.

Upon receiving the City's approval of the sacking, the outlet channel(s) of the manhole to be epoxied and the first upstream manhole shall be mechanically plugged to prevent water flow. The newly sacked manhole shall cure for a period of 28 days.

The epoxy coating and applicator's certification must be submitted to the City for approval. The approved coating may be applied after the 28 day curing period has ended. An accepted method of epoxy application is as follows:

- 1) Mask off the metal frame.
- 2) Sandblast the interior concrete surfaces of the sewer manhole.
- 3) Apply a sealer/primer approved by the City and allow curing per the manufacturer's recommendations. Application may be withheld if, in the opinion of the City, the walls of the manhole exceed the recommended moisture content. A visqueen test may be performed to determine the absence of moisture.
- 4) Apply an approved epoxy to obtain a minimum thickness of 80 mils and allow curing per the manufacturer's recommendations.
- 5) Verify the thickness and adherence of the coating by coring samples, to the satisfaction of the City.
- 6) Repair the sampled areas and allow the repairs to cure.
- 7) "Spark test" the entire epoxy surface area. The electrode shall provide a minimum of 10,000 volts. Areas failing the spark test shall be removed, repaired and retested.

- 8) After approval from the City remove the masking from the metal frame and use "Sikaflex" (or approved equal) sealant to caulk to transition joint between the epoxy coating and the metal frame.
- 9) Use "Sikaflex" (or approved equal) sealant at the concrete PVC interface and for all epoxy transitions.
- 10) Remove the plugs.

Calcium aluminate - Calcium aluminate may be used in lieu of epoxy coating. The manhole shall pass a vacuum test, per these standards. Calcium aluminate shall be SewperCoat by Kerneos Aluminate Technologies or approved equal and shall be installed per manufacturer specifications. Whenever Calcium Aluminate is used, the contractor shall immediately TV the sewer line to ensure no grout entered the line during application. Use "Sikaflex" (or approved equal) sealant at the concrete VCP interface and for all epoxy transitions.

## 1.17 Service Installation

Sewer services shall be installed in accordance with Standard Details SS-03 and SS-04.

Sewer services originating from sewer mains 14 feet in depth or greater shall have the crotch on the "Y" fitting filled with concrete.

## 1.18 Testing Procedures

### A. Sewer Mains and Services

Public and private sewer mains and services shall be air-tested per ASTM C828 by the Contractor and the Contractor shall provide closed circuit TV inspection, after installation of the joint trench utility crossings and subgrade elevations have been met. Additionally, pipeline segments beneath road bases to be lime-treated shall be tested before and after the lime treatment process.

### B. Air Pressure Test

Sewer mains and laterals shall be pressure tested in accordance with the National Clay Pipe Institute recommended guidelines with the following amendment:

Commented [AH10]: What bout for PVC?

Minimum test time shall be 60 seconds.

For mains installed in an area where the water table is higher than the pipe, the test pressure shall be increased 0.5 PSI per foot of water over the pipe.

The test gauge shall be liquid-filled, capable of testing up to 15 PSI, and graduated to 1/10 PSI.

### C. CCTV Inspection

TV inspection of sewer mains and services shall be performed by the Contractor. Costs for said inspection shall be borne by the Contractor.

The sewer system shall be completely cleaned by an approved method such as hydroflushing with a vector truck prior to TV inspection. The sewer system shall be rejected if any of the following conditions exist:

- 1) Standing water or sags based on pipe size at warranty

PIPE SIZE	Inch per 25-feet
21-inch or less	1
24-inch to 36 inch	1.5
42-inch or larger	2

- 2) Standing water in services.

- 3) Offset joints.
- 4) Joint separations greater than  $\frac{1}{2}$  inch wide.
- 5) Damaged pipe.
- 6)

#### **D. Inspection Criteria for Coated Ductile Iron Pipe**

All ductile iron sewer will have the following additional inspection requirements.

The condition of the barrel section of pipe as well as  $360^\circ$  at each joint shall be recorded to a DVD or portable drive. Once completed, and the inspection demonstrates the pipe meets the City's standards, the contractor may proceed with the backfill of the trench. The Contractor shall provide the DVD and a map of the section inspected, to the City for review prior to the City's acceptance inspection. Acceptance does not relieve the contractor or developer from responsibility from defect.

Upon finding any deficiency in the pipe which does not meet the standards of the City, it is strongly encouraged that the contractor make the necessary corrections at that time. If deficiencies aren't corrected City forces at time of acceptance CCTV will identify these deficiencies and require the contractor to dig and replace the pipe sections; there will be no exceptions.

The observation data on the DVD provided to the City shall include the following:

- 1) City wide job number
- 2) Encroachment Permit number
- 3) Project Name
- 4) Location (Street name and cross streets)
- 5) Manhole numbers (based on approved plan set or City asset numbers)
- 6) Direction of inspection (upstream or downstream)
- 7) Date of Inspection
- 8) The speed of travel shall be slow enough to inspect each pipe joint, wye connection, coating integrity, and potential sags. Camera speed should travel at a rate of no more than 30 feet per minute. The camera speed shall be steady and slow enough to record features and defects.

## **E. Manholes**

Sewer manholes shall pass a vacuum test consisting of the following criteria and procedures.

- 1) The test shall be performed after assembly of the manhole and installation of the pipe entering or exiting the manhole, but prior to backfilling. The Contractor shall perform the test and supply all test equipment. The City Inspector shall witness the test results.
- 2) Lift holes shall be filled with non-shrink grout prior to testing.
- 3) Pipe entering and exiting the manhole shall be plugged. The plug shall be placed on the flex joint outside of the manhole base. Securely brace the plugs to prevent them from being drawn into the manhole. Unused channels shall be permanently plugged with a plastic or clay stopper.
- 4) A vacuum of 10 inches of mercury shall be drawn to start the test. The amount of time required for the vacuum to drop to 9 inches shall be measured. The manhole will pass the test if the amount of elapsed time is greater than 60 seconds for a 48 inch manhole, 75 seconds for a 60 inch manhole, 90 seconds for a 72 inch manhole and 120 seconds for an 84 inch manhole. A liquid-filled vacuum gauge shall be used for testing. All detectable leaks shall be repaired with non-shrink grout while the vacuum is drawn. No mortar shall be applied to the inside of the manhole until the vacuum test has passed.
- 5) If the manhole fails the initial test, necessary repairs shall be made with a non-shrink grout while the vacuum is still being drawn. Retesting shall proceed until elapsed times are satisfactory. After passing the vacuum test, all joints shall then be mortared, inside and out. Outside mortared joints shall be allowed to dry 24 hours or as approved by the City before backfilling.
- 6) If damage to the manhole is evident any time during the construction the City may require repairs to be made on the manhole which will require a new vacuum test prior to acceptance.

## **F. Topside Improvements**

When all water, recycled water and sewer infrastructures have passed air, vacuum, pressure and continuity test as well as CCTV inspection the City indicating that the project is ready for road bases and top side improvements only. This does not constitute approval for use of the infrastructure.

## **G. Tying Into the City System**

A tie-in procedure shall be submitted and approved by the City prior to the proposed work. The contractor shall allow for up to 7 days for review of the procedures by the City. The sewer system shall be tied into the City system within 10 working days upon completing and passing all the testing procedures. Tie-ins shall be conducted as specified in these Standards.

## **1.19 Repairing Installed Improvements**

Sewer mains, services, manholes and appurtenances shall be repaired per these Standards and by the following procedures:

**Repairing Pipe:** Damaged Pipe shall be exposed and replaced in kind. Sagging or misaligned pipe shall be exposed and corrected in place if possible. If the pipe is defective, then a new pipe shall be installed. After the correction has been completed, the excavation shall be backfilled and compacted to grade as specified. The repairs shall then be retested and reinspected via CCTV per these Standards.

## **1.20 Abandoning Sewer Stubs and Services**

In new construction, sewer stubs and services to be abandoned shall be removed to the main or manhole of origination. The abandonment of existing sewer stubs shall be as directed by the City.

## **1.21 Materials**

### **A. Manholes**

Manholes, frames, and covers are to be in accordance with details SS-01. All materials used in cast-in-place concrete or precast concrete shall conform to ASTM C-150 Specifications with Type V cement for sulfate protection.

### **B. Manhole Barrels, Cones and Lids**

All manhole frames and covers shall be of cast iron or ductile iron and conform to the ASTM designation A 48, C478 or ASTM 536 and shall be the following or approved equal. All lids shall have an "S" embossed in the center or marked "Sanitary Sewer."

D&L Supply #A-1021

Southbay Foundry #1900.

If short frame and covers are approved:

D&L Supply # A-1022 , 1023

South Bay Foundry #1922

### **C. Appurtenances**

Air Release Valve - APCO Model 450 or approved equal

Trench Dam - controlled density fill.

Cleanout Caps – Threaded ABS or approved equal.

Couplings - For 4 inch lines, use Flex Seal Repair Coupling for ABS cap only, or approved equal. For 4 to 12 inch lines, use Mission Rubber Repair Coupling, Calder Coupling or approved equal. Couplings may not be used in new construction.

Flange Gaskets - All flange gaskets to be neoprene rubber or red rubber, USSO Standard B.16.21 insulation flange kits—Calpico TypeE full-faced gasket and two-side insulation.

Joint Sealing Compounds - Ram-Nek, Con Seal Compound or approved equal.

Mortar - Non-shrink grout during manhole vacuum testing and as specified. Standard mortar mix for all other applications.

Silicone - 100 Percent clear silicone with a 25-year life or approved equal.

MH Coatings - Hydro Pox 204 or approved equal, Calcium aluminate.

Wastewater Marking Tap - Terra Tape Extra Stretch 450 Material, detectable, 12 inch wide or approved equal. Non-Detectablefor sewer force mains.

Oil/Grease Interceptor - Jensen Precast or approved equal.

Reinforcement Bar - Rebar shall be grade 40 steel, deformed type. Smooth bar shall not be allowed. All rebar shall be number four unless otherwise specified on the plans.

## **1.22    Illegal Use of Sewer System**

If Stormwater enters the sewer system, the Contractor and/or Owner/Developer shall be charged according to Gridley Municipal Code. Stormwater run-off shall be classified as "low-strength metered commercial users." The sewer unit shall be 1 sewer unit per 1,000 cubic feet discharge. The City shall determine the volume of discharge.

## Section 1 - Drainage

### 1.1 General

This Section is formulated to clearly define acceptable drainage analysis and design criteria for development in the City. Drainage materials and or facilities not covered in this Section shall conform to the Caltrans Highway Design Manual, Reclamation District's 833 and 2056 requirements (depending on which Reclamation District (RD) the project drains to), and good engineering practice.

Storm water quality design calculations and an operations and maintenance plan shall be included in the drainage report.

Drainage improvements include: culverts, drop inlets, lined and unlined channels, manholes, stormwater quality control measures, outlet and inlet structures, detention and retention facilities, pump stations, and storm drain pipe. These improvements shall be installed in accordance with the approved improvement plans and these Standards. These Standards shall apply to the public right of way and easements and private on-site drainage improvements. Several items within this section shall apply to on-site improvements and in conformance to stormwater quality requirements.

Storm Water Pollution Prevention Plans (SWPPP's), as defined by the State, shall not be required for projects with a disturbed area smaller than 1 acre in size, provided the project is not part of a larger project. An erosion and sediment control plan shall be required as part of the project improvement plan submittal that identifies temporary Best Management Practices (BMP's) to be used during construction.

### 1.2 City Policies and Requirements

All residential lots shall have minimum pad elevations of one foot above the 100-year, 24-hour duration water surface elevation and all commercial sites shall have minimum finished elevations of one foot above the 100-year, 24-hour duration water surface elevation. The consulting engineer shall submit an analysis determining the 100-year, 24-hour duration water surface elevation assuming failure of the underground drainage system serving that area to be developed. This requires the Consulting Engineer to show that the project will provide an overland release for all projects for the 100-year, 24-hour duration storm frequency (1% exceedance probability).

The overland release path shall be constructed in a manner to transport the peak rate runoff from the 100-year, 24-hour duration storm through the site or street assuming all underground storm drains are inoperative, all upstream areas are fully developed, and that the antecedent runoff condition (ARC) of the tributary watershed is ARC II. Streets, parking lots, playgrounds, pedestrian areas, pedestrian walkways, utility easements, and other open space areas may be considered compatible uses within the overland release path.

Except for single family or duplex residential lots, site drainage shall be collected on-site and conveyed via an underground storm drain system to an approved, existing storm drainage system without flowing into existing street gutters or existing roadside ditches.

Peak flows for a 10-year and 100-year, 24-hour duration rainfall events shall not be increased downstream of the project at that location the undeveloped (existing) project site discharges. The Consulting Engineer shall show that the project will not increase 10 and 100-year, 24-hour

storm duration peak flows. Unless regional storm water mitigation devices are available, project specific mitigation shall be required, shall be located on-site, and shall be maintained by the landowner unless otherwise mutually agreed to be dedicated to the City for maintenance by the City and Developer. Any features that are to be dedicated to the City may only be done so through the creation of a maintenance assessment district. Mitigation devices include, but are not limited to, surface and subsurface detention basins, and retention basins. A hydromodification report will be required to demonstrate to the City no increase in runoff is incurred from development with the proposed mitigation devices.

The City of Gridley is a participant in the National Flood Insurance Program (NFIP) and all development in the City shall comply with the regulations of the Federal Emergency Management Agency (FEMA).

### **1.3 Drainage Diversions**

The diversion of natural drainage is allowable only within the limits of the proposed improvement. All drainage must enter and leave the improved area at its original horizontal and vertical alignment unless an agreement, approved by the City Attorney, has been executed with the affected property owners. Temporary drainage diversions during construction shall be approved by the City Engineer and shall be located and constructed in such a fashion as to permit their removal when necessary for the prevention of damage to adjoining properties.

### **1.4 Drainage Easements**

Publicly owned drainage conduits and channels will not be allowed on private property unless they lie within a dedicated public drainage easement. Where minor improvement of an existing channel falls on adjacent property (such as day lighting a ditch profile) a notarized right-of-entry from the property owner(s) for such construction shall be required. A copy of the document which grants such approval, shall be submitted to the City Engineer prior to the approval of the improvement plans.

Easements for closed conduits shall meet the following width criteria:

1. All easements for closed conduits shall have a minimum width in feet equal to the required trench width according to the standard detail for unshored trenches and excavation backfill plus two (2') additional feet of width for every foot of depth as measured from the bottom of the pipe to finish grade. All conduits shall be centered within their easements.
2. Minimum width of any easement for closed conduit shall be 15 feet.

Easements adjacent to property lines shall be located entirely on one parcel.

Drainage easements for open channels shall have significant width to accommodate the following criteria:

3. Contain the channel and channel slopes.
4. Provide for fencing, where required.
5. A 15-foot wide service road and maintenance access ramps.

A service road may not be required where the channel bottom is lined and a suitable access ramp is provided. Dedication of easements shall be completed and submitted to the City Engineer with copies of deeds or title reports for the affected properties before improvement plans will be approved.

Open channels (natural or man-made) with a drainage area that exceeds 300 acres shall have the 100-year, 24-hour water surface elevation limits dedicated to the City in-fee or as a Flood Water Conservation Easement.

## **1.5 Drainage Capacity/Design**

All drainage systems shall be designed to accommodate the ultimate development of the entire upstream watershed. The 10-year 24-hour duration peak storm discharge shall be used in the design of local drainage systems. In addition, other facilities such as streets, bridges, open channels, and buildings have requirements that relate to the 100-year peak storm discharge. The Consulting Engineer shall calculate the 10 & 100-year peak discharge for a 24-hour duration storm and submit these calculations along with the plans for all proposed drainage systems.

## **1.6 Design Peak Discharge Methods**

The acceptable method for the determination of runoff peak flows and volumes for the 10, & 100-year, 24-hour duration storms is the United States Department of Agriculture Natural Resource Conservation Service's Technical Release 55 (TR-55), Urban Hydrology for Small Watersheds. The following shall apply in developing the hydrologic calculations:

The Tabular Hydrograph Method shall be used in the analysis. The graphical peak discharge method is not allowed.

The regional rainfall time distribution used shall be Type 1A.

The Antecedent Runoff Condition (ARC) used in the hydrologic analysis shall be the average ARC.

Tables 2-2b and 2-2c, Runoff curve numbers for cultivated agriculture lands and Runoff curve numbers for other agriculture lands shall be used in determining Runoff Curve Numbers (RCN) for existing (undeveloped) conditions.

Table 2-2a, Runoff curve numbers for urban areas, shall be used in determining RCN's for developed conditions.

The Consulting Engineer may use other methods for determining peak flows and volumes and developing hydrographs with the approval of the City Engineer.

## **1.7 Hydraulic Standards for Drainage Systems**

All storm drain pipelines and open channels shall be designed to convey the maximum design peak runoff calculated per these Standards and shall conform to the following requirements:

#### **A. Hydraulic Grade Line**

The hydraulic grade line for the 10-year discharge shall be a minimum of one foot below all inlet grates, manhole covers, and all other drainage structures in the system. The hydraulic grade line shall be shown on the plans when it is above the top of the pipe.

#### **B. Manning's Formula**

Manning's formula shall be used to compute capacities of all open and closed conduits other than culverts. A minimum "n" value of 0.015 shall be used for sizing conduits.

Minimum velocity in closed conduits shall be 2 feet per second. Maximum velocity shall be 12 feet per second.

### **1.8 Street Inundation Requirements**

City streets are allowed to convey runoff for storm events larger than the 10-year 24 hr event. The standards for street inundation are specified in the following Table. The Consulting Engineer shall provide calculations and an exhibit showing that these standards are met. Street inundation calculations will assume the pipe system is fully functional.

STREET	10-YEAR STORM	100-YEAR STORM
<b>Minor Residential</b>  At continuous grade, uphill, and downhill  At Sag Points	Traveled lanes remain clear and do not carry storm water.  Storm water elevation does not exceed top back of curb or back of sidewalk. Maximum depth in traveled way is 6". Centerline shall be dry	Maximum depth at gutter flow line shall not exceed 4" above the top -back-of-curb or a max. of 10". Max. depth at centerline is 4"  Storm water is a maximum of one foot below building pads. Ponding does not exceed more than 120' from inlet along any street

<b>Collector/Industrial</b>  At continuous grade, uphill and downhill	Traveled way remains clear and does not carry storm water.	Storm water flow is contained within the right-of-way. The center 12 feet of roadway shall remain clear of stormwater.  Storm water flow is contained within the right-of-way. The center 12' of roadway shall remain clear of stormwater.  <b>Note:</b> If the roadway is separated by a median, then each half of the roadway shall maintain a 12' clear path of travel.
<b>Arterials</b>  At continuous grade, uphill and downhill, or at sag points		All travel lanes are clear of storm water flow.  Bike lanes are allowed to be inundated. Storm flow contained within the right-of-way.

## 1.9 Closed Conduits

The specific type of pipe or alternate pipe to be used in any development shall be shown on the approved plans. If the Consulting Engineer proposes to use any type of pipe not shown on the approved plans, the plans shall be resubmitted to the City Engineer for approval.

### A. Size and Material

Drainage systems to be maintained by the City shall have a minimum pipe diameter of 12 inches. Private, onsite drainage systems that are reviewed by the City shall have a minimum pipe diameter of 8 inches. The types of pipe materials that are allowed are stated later in these standards.

### B. Cover Requirements

A minimum cover of 36 inches and a maximum cover of 60 inches shall be maintained as measured from the outside bell of the pipe to the pavement or final grade.

In fill areas, or in areas with poor soil conditions where it is anticipated that a good, firm, vertical-walled trench cannot be constructed, the Consulting Engineer shall design the pipe structural requirements in accordance with good engineering practice and manufacturers recommendations. If trench conditions are uncertain, a note shall be placed on the plans making it the Contractor's responsibility to work with the Consulting Engineer to determine and place the proper strength pipe if poor trench conditions are encountered.

### C. Alignment

Pipelines for storm drainage shall have a constant slope between manholes, junction boxes, and/or catch basins. Minimum radius of horizontal curvature shall be 200 feet. In no case shall the radius of curvature be less than the manufacturer's recommendations for the particular pipe size under consideration.

Drainage pipelines shall be located in the street whenever possible. The location of storm drainage pipelines in the streets shall be 5 feet north or west of and parallel with the street centerline. A minimum angle of 90 degrees shall be accommodated for downstream flow around bends, tees, and connection points.

When storm drainage pipes are to be placed in existing streets, factors such as curbs, gutters, sidewalks, traffic conditions, pavement conditions, future street improvement plans, and existing utilities shall be considered.

Open ditches, lined channels, swales, and floodplain areas shall be maintained as nearly as possible in their existing alignment. When an open ditch is to be constructed parallel to an existing roadway, the ditch shall be constructed outside the proposed right-of-way of the ultimate street development.

## 1.10 Manholes

Standard precast concrete manholes shall be constructed as required. Where special manholes or junction boxes are required, the City Engineer must accept the design. In no case will junction boxes or manholes be allowed which are smaller than 48 inches inside diameter. Manholes shall be located at junction points, angle points, changes in gradient, changes in conduit size, end of curves and beginning of curves. Manholes or junction boxes will not be required for reach of pipe less than 80 feet in length that is to be connected to a 36 inch or larger diameter pipe, subject to approval of the City Engineer. For straight alignment, the spacing of manholes shall not exceed 500 feet. The spacing of manholes shall be nearly equal whenever possible. On curved pipe, spacing of manholes shall be as specified in Table 1-1:

*Table 1-1 Manhole Spacing*

RADIUS	PIPE DIAMETER	SPACING
400' OR LESS	ALL	300'
GREATER THAN 400'	24" OR LESS	400'
GREATER THAN 400'	GREATER THAN 24"	500'

#### **A. Covers**

All manholes and junction boxes, other than inlets, shall have standard manhole covers per the Standard Drawings. No pipe will be allowed to enter a manhole into the transition portion of the manhole cone. Manholes will not be allowed in gutter flow line except where approved by the City Engineer. Slotted manhole covers may be used to pick up minor drainage in non-traffic areas.

### **1.11 Inlets**

Drop inlets in streets shall be located on property lines in residential subdivisions except at intersections, where they shall be placed at curb returns. Inlets shall be such that the length of the flow in the gutter does not exceed 500 feet. The depth of flow in the gutter at the inlet shall not exceed 4.0 inches in a 10-year storm and shall not encroach into the traveled ways as specified in Table 10- 6 for other design storms. The design runoff flow rate shall include any flow that bypasses upstream inlets.

All inlets located with the right-of-way or easements shall conform to the City Standards. Inlets may be modified for use without curb sections for on-site drainage. Where an inlet is proposed in public streets and sidewalk is not constructed adjacent to the back of curb, a concrete collar shall be placed behind the inlet.

Drop inlets draining public streets may be connected directly to a trunk line 36 inches in diameter or larger by means of a lateral not exceeding 15 inches in diameter and 80 feet in length. Connections to the pipe shall be cored and a boot is required for a water tight seal.

### **1.12 Inlet and Outlet Structure**

The requirements for these facilities are as follows:

#### **A. Headwalls, Wingwalls, and Endwalls**

All headwalls, wingwalls, endwalls, preformed end sections, guard rails and bank protection shall be considered individually and shall be, in general, designed in accordance with the Standard Specifications and Standard Plans of the California Department of Transportation and City Standards.

Metal beam guardrails or chain link fencing may be required by the City Engineer at culverts, headwalls, box culverts, and steep side slopes.

#### **B. Trash Racks and Access Control Racks**

Trash racks shall be provided where they are necessary to prevent clogging of culverts, storm drains, and to eliminate hazards. Access Control Racks shall be required on all pipes, 24 inches or larger in diameter. Trash Racks located within vaults shall be automated and self-cleaning.

### **1.13 Drainage Pumps**

Drainage pumps shall be avoided whenever possible and used only with specific approval of the City Engineer. If the use of drainage pumps is permitted, the drainage system shall be designed to provide for gravity outfall during the summer months and other periods of low water stages. If a low stage gravity outfall is impossible or impractical, an alternative pump of a smaller capacity for low stage flow may be used provided the City Engineer grants specific approval.

## **1.14 Channels and Outfall Design**

Drainage shall be conveyed in an open channel if the drainage area exceeds 300 acres. Residential lots adjacent to open channels shall have minimum pad elevations of two feet above the 100-year water surface elevation. Non-residential lots shall have the lowest ground elevation adjacent to the building foundation at least two feet above the 100-year water surface elevation.

### **A. Open Channel Design Requirements**

Channels shall be constructed to a typical cross section. Fully lined channels shall be designed with side slopes of 1:1 or flatter. Channels with unlined sides shall be designed with side slopes of 3:1 or flatter, or as specified by the Geotechnical Engineer based on existing soil conditions. Lined channels shall have a minimum bottom width of 6 feet. Lined channels shall be finished concrete, sacked concrete, or doweled and sacked concrete. The minimum weight of sacked concrete shall be 60 pounds per bag. Unlined channels shall be designed with a minimum "n" value of 0.065.

All open channels shall be designed to carry the 100-year frequency design storm. The hydraulic grade line of the 10 and 100-year storms shall be calculated and plotted on all channel profiles. Freeboard shall be a minimum of one foot for the 100-year event and two feet when the drainage area exceeds 300 acres. The velocity range shall be 2.5 to 6.0 feet per second in unlined open channels and 3.0 to 12.0 feet per second in lined open channels. All computations shall be clearly documented and submitted to the City Engineer for approval.

For all channels, either realigned, or natural, the following shall be shown on the improvement plans in addition to the information heretofore required:

1. The profile of existing channels shall be shown for a minimum of 1000 feet at each end of the development on the construction plan to establish a minimum profile grade.
2. Typical sections and cross sections.

### **B. Interceptor Ditches**

Interceptor ditches or approved alternates shall be placed at the top of the cut or bank where deemed necessary by the City Engineer to prevent erosion of the channel bank. Runoff shall not be allowed to sheet flow over the top of banks.

### **C. Outfall Profiles**

All drainage outfalls shall be shown both in the plan and profile view, on the improvement plans for 1000 feet or until a definite "daylight" condition is established. All drainage ditches upstream of the improvement shall be shown on the plan and profile sheets for a distance of at least 500 feet or until an average profile grade through the improvement is established. The profiles shall include ditch flow line and top of bank elevations.

When improvements have more than one unit, the drainage outfall shall be shown as extending to the property boundary and beyond if required, although it may not be constructed with the current unit development. All temporary outfalls shall be shown both in plan and profile view, on the improvement plans.

#### **D. Fencing**

Channels exceeding three (3) feet in depth and with side slopes steeper than 3:1 shall be fenced with a six (6) foot high chain link fence per the Caltrans Standards. In all other areas, fencing shall be placed as specified the City Engineer. Fences shall be located 6 inches inside the drainage easement lines and a minimum of 12 inches from the top bank. No fencing shall be allowed within the limits of the 100-year floodplain of an open watercourse without the approval of the City Engineer. Special requirements shall be specified by the City Engineer for fencing within the 100-year floodplain of any open watercourse.

Drive gates shall be provided with a minimum width of 12 feet. A minimum 4- foot wide walk gate shall also be provided.

#### **E. Access Roads**

An all-weather access road consisting of six (6) inches of compacted AB shall be provided adjacent to all channels and outfall ditches to the satisfaction of the City Engineer. Access roads shall have a minimum width of 12 feet and shall provide a bulb at end for turning movements.

### **1.15 Cross Culvert and Bridges**

This section specifies criteria for relatively short circular or box culverts and bridges for transverse crossings (typically road or railroad embankments). Cross culverts shall be of the same material as allowed for closed conduits.

Cross culvert profiles will be determined on an examination of the channel for a minimum distance of 1000 feet on each side of the installation.

Driveway culverts shall be approved by the City for size, grade, alignment and type. Driveway culverts will not be allowed unless the City has agreed to deter the construction of the curb and gutter unless it is for the temporary construction access.

New culverts or bridges for roadways that cross the floodplain shall incorporate provisions for the installation of permanent stream measuring equipment. This shall be comprised of a 10' x 10' flat pad near the 100-year water surface elevation with vehicle access. A two (2) inch diameter electrical conduit from the pad to the flow line of the channel will be installed.

#### **A. Design Storm**

Cross culvert size shall be determined on the basis of runoff as specified in the hydrology portion of this section. Cross culverts shall be sized for the 100-year storm with a minimum of one foot of freeboard below the lowest travel lane. They shall also be sized such that no serious damage will be incurred due to ponding as a result of a 100-year event. A flood easement shall be provided for all areas impacted due to upstream ponding in the 100-year event. The minimum diameter of cross culverts shall be 18 inches.

To account for debris collection, a clogging factor of 150% shall be applied to the design storm in the design of bridges or culverts that cross a channel or stream with a drainage area that exceeds 300 acres.

#### **B. Hydraulics**

Inlet or outlet conditions control flow in transverse culverts. In culverts operating under inlet control, the cross-section area of the culvert barrel, the inlet geometry and the amount of headwater at the entrance are of primary importance. Outlet control involves the

additional consideration of the elevation of the tailwater in the outlet channel and the slope, roughness and length of the culvert barrel.

Anticipated downstream flow depth and allowable headwater depth govern the available head on culverts. The type of flow under which a culvert will operate may be determined from a given set of conditions.

In the analysis of transverse culverts, the United States Federal Highway Administration (FHWA) methods for hydraulic design as detailed in the FHWA's Hydraulic Design Series Number 5 shall be used.

## **1.16 Detention and Retention Basins**

Detention and retention basins that are intended to be dedicated to the City shall minimize its maintenance time and cost. This will be key factor in the approval of the basin's O&M Plan by the City Engineer.

## **1.17 Access for Maintenance**

These facilities may include, but are not limited to bridges, culverts, headwalls, lined and unlined channels/ditches, sand/oil separators, manholes, detention basin, retention basins and drain inlets. The access way shall be a minimum 12 feet wide and include six (6) inches of  $\frac{3}{4}$  inch aggregate base(95% relative compaction) over six (6) inches of processed, native soil (95% relative compaction. Upon the City Engineer's request, four (4) inches of asphalt concrete shall be added to the section and/or a cul-de-sac with a minimum diameter of 75 feet

## **1.18 Submittal Requirement for all Drainage Studies**

The Consulting Engineer will submit the signed and sealed drainage study for review and approval by the City Engineer in PDF format. The study shall include the following:

- Title sheet with the project name, developers name and contact information, and the Consulting Engineer's name and contact information.
- Location map
- Site plan
- Preliminary grading and drainage plan
- Existing conditions catchment map
- Developed conditions catchment map
- Methodology section describing both existing and developed conditions assumptions and inputs
- Results section with summary tables of peak flows for both existing and developed conditions
- Hydromodification study (if required) to demonstrate no increase in peak runoff
- Conclusion

The Consulting Engineer shall electronically submit all models and results developed for the project.

## **1.19 Drop Inlet Installation**

Drop inlet installations shall conform to Standard Details, these standards, and the most recent of Caltrans Standard Specifications. The interior of the drop inlet shall have a troweled finish; rock pockets shall be grouted and brushed; exposed top surfaces shall have a Class I Surface Finish. Within all City streets and easements and within all commercial sites and private residential subdivisions, a fish stamp conforming to the Standard Details shall be placed adjacent to all drop inlets. If the storm drain system is active and open to discharges, then immediately following installation, all storm drain inlets shall be protected with sediment control protection until construction no longer poses a risk of sediment discharges. Drop Inlets shall conform to ASTM C913. Otherwise, unused knockouts shall be grouted to wall thickness dimension.

## **1.20 Manhole Installation**

### **A. Precast**

Precast concrete structures shall be of approved design and sufficient strength to withstand the loads to be imposed upon them. Precast concrete walls for catch basins shall be 6 inch thickness except at knockouts where the minimum thickness shall be 2 inches. Precast bases shall be placed on a foundation of 3/4 inch minus crushed rock or class 2 aggregate base, a minimum of 6 inches thick, compacted to 95 percent relative compaction. Elevation

differentials of inlets and outlets shall conform to the approved improvement plans. Openings in the base shall align true with all inlet and outlet pipes. Stub out or couplings provided in precast bases shall be of the same material as the pipe to which they connect, unless otherwise approved by the City's Inspector. Precast bases shall be furnished with cutouts or knockouts. Unused knockouts shall be submitted to City Engineer prior to construction. Pipes shall be installed only in factory knockouts unless otherwise approved by the City Engineer. Maximum Knockout or cutout hole-size shall not be greater than the sum of the outer pipe diameter plus the catch basin wall thickness.

## **B. Cast-in-Place Base**

The cast-in-place base portion shall not be placed higher than 6 inches above the outside tops of the main incoming and outgoing pipes.

The wall thicknesses for the top of the cast-in-place base sections shall conform to the following table:

Manhole Diameter (inches)	Minimum Wall Thickness (inch)
48	4
60	6
72	7
84	8
96	9

Inside diameters of cast-in-place base portions shall equal the inside diameter of the manhole specified. Standard precast manhole riser sections and/or cones shall be placed above the cast-in-place section to bring the manhole rim to finish grade. Upon pouring the concrete base, the top surface of the cast in place base barrel shall be stamped with a rigid impression ring in order to match it up with the above, precast barrel section. As an alternate, a maximum 1 foot barrel section may be stacked when it is determined that the concrete for the base is adequately stiff.

A 24-hour minimum curing time is required before manhole stacking is allowed.

All inlets and outlets with a 30 inch inside diameter or smaller, connecting to existing manholes, shall be core bored.

Concrete in the cast-in-place portion shall be placed against undisturbed earth. All loose material shall be removed from the excavation prior to installation.

## **C. Cones**

Cone tops shall be placed within 18 inches of final street grade. Where depth is insufficient for cones, flat slab tops shall be used. Flat Top slabs shall only be used when shallow pipe does not permit use of a tapered dome, and requires approval by the City Engineer. Lifting rings in precast cones shall be plugged with dry packed mortar.

## **D. Joints**

Joints in precast manhole sections shall be made with either mortar or plastic sealing compound.

**Mortar Application** - All joint surfaces and the face of the manhole base shall be thoroughly cleaned and wetted before applying mortar. Both the inside and outside of mortared joints shall be plastered with mortar, and the inside surfaces brushed to a smooth finish with a wet brush. Special precautions shall be taken to ensure that the entire joint space is filled with mortar and is water tight.

**Plastic Sealing Compound Application** - All joint surfaces and the face of the manhole base shall be thoroughly cleaned before applying plastic sealing compound. The sealing compound shall be protected from dirt during application. Ends of the compound shall be joined end-to-end and not joined by overlapping. Sufficient compound shall be used to cause a visual "squeeze-out" of the compound material when adjacent sections are seated.

Squeeze-out material on the inside of the manhole shall be neatly trimmed flush with the inside surface.

## **E. Connections**

Pipe connections to drainage manholes shall be made so that the pipe is flush with the inside face of the manhole. These connections shall be finished so that entrances are smooth. Unless the manhole is cast around the pipe, connections shall be made with dry packed cement mortar inside and a 12 inch by 12 inch minor concrete collar outside. Pipe connections shall not be made into the cone section of the manhole unless shown on the approved plans.

## **F. Grade Rings**

Grade adjustments shall be made using precast grade rings. Precast rings shall be a minimum of 3 inches in height. The total height of the grade rings, frame, and cover casting shall not exceed 18 inches.

## **G. Frame and Covers**

The tops of frames and covers shall be set no more than 1/8th inch below finish grade pavement in the street and 6 inches above finish grade in landscape areas and 12-18 inches in unimproved, isolated areas unless otherwise shown on the approved plans. Per the Standard Details, a 12 inch deep by 12 inch wide concrete collar shall be placed around the casting, either covered by 3 inches of asphalt concrete paving in a street area, or be placed flush with the finished surface using minor concrete with a medium broom finish with pattern perpendicular to travel direction. The concrete collar shall be in conformance to minor concrete of Caltrans Standard specifications. All joints between the frame, grade rings, dome, barrels and base shall be sealed with non-shrink mortar, or an approved plastic sealing material. Inside the manhole, all joints where the sealing material is not flush with the inside wall shall be grouted with non-shrink mortar and finished/wet-brushed.

## **H. Adjusting Existing Manhole Frames**

The frame shall be supported above the grade ring or dome by spacers, or by suspending with timber and wires. After the concrete collar is poured, any space between the frame and grade ring and dome shall be filled with non-shrink mortar, and the inside wall of the riser finished/wet-brushed.

## **1.21 Pipe Bedding**

Pipes shall be placed on a firm bed of imported granular material with less than 10% passing No. 8 sieve,; 100% passing  $\frac{1}{2}$ " sieve for all pipe or 85 to 90% Passing  $\frac{1}{2}$ " sieve and 100%

passing  $\frac{3}{4}$ " sieve. Prior to placing pipe bedding, the trench bottom shall be free of any loose material.

## **1.22 Pipe Installation**

All drainage improvements shall conform the following requirements:

### **A. Laying Pipe**

The pipe shall be laid up-stream with the bell end of the pipe placed up-stream. The interior of the pipe shall be kept clean as the work progresses. There shall not be a change in pipe material or manufacturer between storm drain structures.

**Handling, Laying and Backfill of Polyvinyl Chloride (PVC), HighDensity Polyethylene Pipe (HDPE), Steel Reinforced High Density Polyethylene Pipe (SRHDPE), and Polypropylene Pipe** –The pipe shall be handled in accordance with the manufacturer's published recommendations. Laying and backfill shall conform to Caltrans Standard Specifications, the manufacturer's recommendations, ASTM D-2321 and Standard Details, with the following modifications:

Due to the lightweight characteristic of the pipe, extreme care shall be taken to avoid displacing the pipe during the backfilling operation.

Following placement of the pipe on the required bedding and to the required grade, the pipe shall be stabilized in place with ballast. At a minimum, this shall be accomplished by loading the pipe down slowly and carefully with small piles of embedment material to a minimum of 1 foot above the pipe on each joint and midway on each length. The pipe shall be kept centered in the trench during this operation. Every precaution shall be taken to avoid flooding the trench prior to placing backfill. The City's Construction Inspector may require dewatering the trench to confirm pipe grade, and to retest the integrity of the pipe following trench flooding.

The trench shall be backfilled with embedment material 12 inches above the pipe, prior to continuing with the trench backfill.

Pipe material or manufacturer shall not change between manhole structures or between the last structure and the discharge/inlet opening.

The pipe run between the last structure and the discharge/inlet opening shall be reinforced concrete. Pipe stub runs from storm drain mains into commercial sites shall also be reinforced concrete.

No pipe, conduit or any other appurtenance shall be located within any existing or newly constructed storm drainpipe or culvert. Each run of storm drainpipe and culvert shall also be 100% clear and unobstructed the total length.

### **B. Non-Rigid (PVC/HDPE/SRHDPE/Polypropylene) Pipe Testing**

A mandrel test shall be conducted following completion of subgrade processing and compaction for curb gutter and sidewalk and asphalt concrete pavement. Placement of curb, gutter and sidewalk and asphalt concrete pavement (and related aggregate base) shall not occur until the City Inspector has confirmed the passing of the mandrel test. The City's Inspector shall be present through the duration of the mandrel testing.

The allowable deflection (reduction in vertical inside diameter) for all non-rigid pipes shall be 7.5% maximum. The deflection shall be tested by pulling a mandrel which is 92.5% of the inside pipe diameter through all installed pipe. The mandrel shall be the "go/no-go:" type and shall be pulled per the manufacturer's recommendations without mechanical assistance. Prior to the mandrel test, the pipe shall be thoroughly flushed and cleaned, (See Subsection "J" below). Obstacles in the pipe shall be removed. At each location in which the mandrel cannot pass, the cause shall be ascertained. If it is found the deflection exceeds 7.5 % or that a gasket has been improperly installed, or that the pipe has been damaged due to construction activities, then the respective section of pipe shall be repaired and retested. Pipe section repair operations may require rebedding pipe, replacing pipe, or both as needed to properly repair pipe section. Watertight repair couplings shall be used in repair. A passing mandrel retest is required.

At the contractor's discretion, any sections of non-rigid pipe not passing the mandrel test may be televised to evaluate the problem.

#### **C. Pipe Laying Tolerances**

The pipes shall be laid true to line and grade with allowed tolerances of 0.03 foot above or below the design grade and 0.10 foot left or right of the design alignment.

#### **D. Cast-in-Place Concrete Pipe**

Cast-in-place concrete pipe shall conform to provisions in the most recent edition of the Caltrans Standard Specifications. Where excavations for other utilities undermine installed cast in-place pipe, that excavation shall be backfilled to the spring line of the cast- in-place pipe with 2 sack slurry per these Standards.

#### **E. Pavement Cutting and Repaving**

When the trench line is in an existing pavement area, the pavement shall be sawed or scored and broken ahead of trenching operations.

The proper tools and equipment shall be used in marking and removal of the pavement such that it is cut accurately to a neat and parallel line on either side of the trench width required, in conformance with the Trench Cut Ordinance. All cuts in Portland cement concrete pavements shall be sawcut with equipment approved by the City's Inspector.

#### **F. Cleaning of Storm Drain System –**

The storm drain system shall be cleaned to the satisfaction of the City's Inspector upon completion. If flushing is utilized, then the discharge shall not be routed into the existing City system. The downstream manhole shall be plugged and the discharge fluid shall be disposed of in a manner satisfactory to the City's Inspector.

### **1.23 Channel Lining Installations**

Channel lining installations shall conform to the following.

#### **A. Surface Preparation**

The surfaces of the areas to be lined shall be evenly graded to the lines and grade and sections as indicated on the approved plans. The surfaces shall be moistened thoroughly to prevent moisture from being drawn from the freshly placed lining.

All surfaces on which lining is to be placed shall be free from water, mud and debris and shall be firm enough to prevent contamination of the fresh lining by earth or other foreign material. Prior to placing any lining, the Contractor shall verify line and grade of the excavated channel.

## **B. Reinforcement**

Welded wire fabric shall be embedded in the concrete so that it will be a minimum of 1 inch clear from either face of the concrete, unless otherwise noted.

## **C. Joints**

**Construction Joints** – Shall be square and edged with a  $\frac{1}{4}$  inch radius- edging tool. The edge shall be thoroughly wetted before the next section of lining is placed. Construction joints shall be constructed whenever the operation is halted for a period exceeding 30 minutes. Welded wire fabric reinforcing shall extend through the construction joint.

**Deep Tool Joints** - Transverse deep tool joints shall be constructed at 10 foot intervals. The aggregate shall be separated with the joint tool a minimum of 2 inches deep. Immediately following application of the deep tool joint, a  $\frac{1}{4}$  inch grooving tool shall be applied to the surface to seal the joint.

## **D. Weep Holes**

On channels with side lining extending more than 18 inches vertically above the channel toe, weep holes shall be constructed at intervals of 10 feet, midway between contraction joints on each side of the channel. The weep hole elevation shall be 12 inches above the adjacent toe of slope.

The holes shall be backed by a minimum of 1 cubic foot of aggregate material tied in a burlap bag.

The aggregate shall extend at least 6 inches above and below and to each side of the weep hole, and at least 10 inches into the side slope. The side and back of the burlap sack shall be protected from being coated by mortar or concrete during the lining placing operation. On the day following the lining placement, each weep hole shall be rodded to assure it has not been blocked. The weep hole shall then be cut to fit the channel slope.

## **E. Cutoff Walls**

Cutoff walls shall be constructed around the perimeter at each end of the channel lining and at all locations where the new lining meets structures or existing lining, and at all other locations shown on the approved plans. The cutoff walls shall be a minimum of 6 inches thick and 18 inches in depth, as measured from the surface of the lining. The welded wire fabric shall be bent down into the cutoff walls.

## **F. Geotextile Linings**

Linings shall follow the manufacturer's recommendations for preparation of soil, seed bedding, blanket orientation, anchoring details, and appropriate seed blend and application rates.

## **1.24 Abandoning Storm Drains**

In newer construction, storm drain stubs and services to be abandoned shall be either removed to the main or manhole of origin or filled solid with concrete slurry, at the discretion of the

City Engineer. The abandonment of existing storm drain stubs shall be removed or left in place as directed by the City and or as shown on the approved plans.

Temporary storm drain plugs may be used when short term blockage is necessary at either the stub or lateral run to prevent storm water from entering/existing the stub or lateral run.

Material for plugs may be a combination of 6 mil plastic and rigid plywood. For longer term plugs, and at the discretion of the City Inspector, 6 mil plastic and 1 foot thick of 2 sack concrete is required. In both cases, the plug shall be marked with a 4x4 temporary post.

## 1.25 Material

### A. Drop Inlets

All drop inlets shall conform to the Standard Details or the most recent edition of the Caltrans specifications. Concrete shall conform to these standards.

### B. Manholes

All precast manhole barrels, risers, cones, flat tops and grade rings shall conform to ASTM Designation C478.

**Bases** - Bases shall be either precast or cast-in-place. Precast bases shall conform to ASTM Designation. Cast-in-place bases shall be of minor concrete with cementitious content of not less than 505 pounds per cubic yard, with a maximum size aggregate not greater than 1 inch or smaller than 3/8 inch, per the Caltrans Standard. Slump shall not exceed 4 inches as determined by the slump cone method of ASTM Designation C143 or an equivalent slump as determined by CTM533.

**Barrels** - Manhole barrels shall conform to dimensions of Jensen Precast Products or approved equal, and shall conform to ASTM Designation C478.

**Cones** - All cones shall be concentric (unless otherwise shown on the approved improvement plans), Jensen Precast Products and conform to ASTM Designation C478.

### C. Joints/Mortar

Joints shall be made with either non-shrinking mortar or with a plastic sealing compound conforming to Federal Specification. Mortar shall consist of 1 cubic foot of Portland cement to 2 cubic feet of concrete sand.

### D. Manhole Frames and Covers

All manhole frames and covers shall be of cast iron or ductile iron and conform to ASTM Designation A48, C478 or ASTM A536 for Ductile Iron or Class 30. Refer to the Standard Details for a list of recommended manufacturers and models.

### E. Storm Drain Pipe

**High Density Polyethylene Pipe (HDPE)** - HDPE shall be type "S", conforming to the most recent edition of Caltrans Standard Specifications. Joint connections shall be watertight, rubber ring gasketed. HDPE shall be Hancor (Sure-Lok F477), ADS, Inc. (N-12 Pro Link Ultra) or approved equal.

**Polyvinyl Chloride Pipe (PVC)** - PVC shall conform to the following standards based on pipe diameter:

Pipe Diameter (in)	ASTM Designation
12 -15	D3034, SDR 35
18-27	F794, F2241, SDR 51
30-48	F794

All PVC pipe joints shall be integral wall bell and spigot configuration, factory formed. All rubber rings shall conform to ASTM Designation F477.

**Steel Reinforced High Density Polyethylene Pipe (SRHDPE)** – SRHDPE shall be manufactured in accordance with ASTM F2562 “Standard Specification for Steel Reinforced Thermoplastic Ribbed Pipe and Fittings for Non-Pressure Drainage and Sewerage”. SRHDPE shall be manufactured from high density polyethylene stress rated resins conforming to the minimum requirements of cell classification 345464 C per ASTM D3350 “Standard Specification for Polyethylene Plastic Pipes and Fittings Material”. Joints shall be watertight to an internal water pressure of 15 psi when tested in accordance with ASTM D3212 “Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals”. SRHDPE shall be CONTECH (DuroMaxx) or approved equal.

**Polypropylene Pipe** - Pipe 12 inch – 60 inch Diameter shall conform to ASTM F2736 (12-30 inch diameters) and ASTM F2881 (36-60 inch diameters). Joints must be watertight in accordance to ASTM D3212 with gaskets meeting the requirements ASTM F477. Minimum cover shall be 36 inches cover from top of pipe bell to bottom of roadway structural section. Maximum cover exceeding 20 feet and unpaved surfaces will be approved on a case-by-case basis at the discretion of the City Engineer. Polypropylene Pipe shall be ADS N-12 HP Pipe, or Prinsco GOLDPRO Storm Dual Wall HP Pipe, or approved equal.

**Reinforced Concrete Pipe** - Shall conform to ASTM designation C76 for Class I, II, III, IV, or V. The class of pipe shall be based on the designation conforming to the approved plans. Joints for RCP shall be bell and spigot with rubber gasket. The gasket shall conform to the Caltrans Standards.

## F. Stormwater Treatment Devices

The use of on-site storm water treatment devices are strictly limited to smaller development projects with limited space where bio-retention facilities are not functional, at the discretion of the City Engineer.

**Inlet and Outlet Structures** - All inlet and outlet structures shall conform to the Construction Standard Details for drainage.

**Slurry Cement Backfill** - Slurry cement backfill shall conform to the requirements of the most recent Caltrans Standard Specifications containing 188 pounds of cement.

## G. Lined Channels

All lined channels shall conform to these standards and the following materials:

**Air Blown Mortar** - Air blown mortar shall conform to provisions in “Shotcrete” Section of the most recent edition of Caltrans Standard Specifications.

**Concrete** - Concrete shall be either “Minor Concrete” with Type II cement, sacked concrete, or doweled and sacked concrete per Caltrans specifications.

**Curing Compound** - Curing Compound shall conform to provisions in the most recent edition of Caltrans Standard Specifications and these Design and Construction Standards.

**Grouted Cobbles** - Ground cobbles shall be set in 6 inches of "Minor Concrete" with pea gravel concrete. The top surface of the concrete shall be flush with adjacent finish grade. Cobbles shall be 4 to 10 inches in size, with 1/3 exposed above the concrete surface, per Caltrans Specifications. Base for concrete shall be undisturbed native soil. If the soil is disturbed or undercut, it shall be processed to 90% relative compaction.

**Weep Holes** - All weep holes shall be 2 inches in diameter and made of: galvanized steel pipe, schedule 40 or greater; PVC pipe, schedule 40 or greater; or ABS pipe, schedule 40 or greater.

**Welded Wire Fabric Reinforcement** - Welded wire fabric reinforcement to conform to ASTM Designation A185.

## H. Metal Storm Drain Marker

"No Dumping" public notices are required at all storm drain inlets within the City limits, public and private storm drain improvements. Where conditions do not warrant as defined in the Standard Details, metal storm drain markers may be substituted as approved by the City Inspector. Metal markers shall be Almetek Industries Marker, stainless steel storm drain marker model SDM-SS "No Dumping Drains to Creek" with "fish" symbol and blue background or approved equal. Installation methods shall be per manufacturers' recommendations and approved by the City.

## Section 2 - Grading

### 2.1 General

This section specifies design, improvement requirements and plan submittal requirements of Grading Plans for private developments. It includes items pertinent for the City's review and reflects established professional engineering practice for preparation of Grading Plans. Questions and clarifications regarding this Section should be directed to the City Engineer.

Grading improvements shall include but are not limited to: excavation and embankment work for channels, pads and roadways, erosion control measures and retaining walls. These improvements shall be installed in accordance with the approved improvement plans, these Standards, the latest edition of the California Building Code, (CBC), the SWRCB Construction General Permit No. CAS000002, (WQ ORDER No. 99-08-DWQ), and the latest edition of the Caltrans Standard Specifications.

For properties which are not located within a specific plan area, the City's authority for regulating grading is provided by Chapter 33 & 18 of the California Building Code (CBC). The CBC requires that a Grading Permit be obtained from the City prior to beginning any grading work unless the work meets certain exemptions specified in the CBC. This is necessary to ensure that on-site drainage adequately accommodated, off-site drainage is conveyed through the project, the proposed grading is compatible with adjacent property topography and adequate erosion and sedimentation control measures are addressed.

Two (2) types of Grading Plans are reviewed by the City: Finished Grading Plans and Rough Grading Plans.

Finished Grading Plans shall be submitted as part of the Improvement Plans for a project. Finished grading requirements are specified in Section 2.4.

Rough Grading Plans are submitted separately from and may be accepted prior to Improvement Plans. The plans should detail only the preliminary grading of a site. The design shall not allow for construction of any improvements (storm drains, streets, curbs, gutters, etc.) and shall indicate positive drainage flow except in those instances provided on the plans for erosion and/or sedimentation control. Rough grading requirements shall be as specified in Section 9-5.

## **2.2 Fees and Bonds**

Plan review and permit fees for grading shall be in accordance with Chapter 33 of the California Building Code (latest edition as adopted by the City). 50 percent of the plan review fees will be required at the time of submittal. The amount of the bond shall be equivalent to ten (10) percent of the cost of the grading and all erosion and sediment control measures, but not less than \$500.00.

## **2.3 Plan Preparation**

All Grading Plans shall be prepared by or under the direction of a Registered Civil Engineer. All Sheets shall be stamped and signed by a Registered Civil Engineer licensed in the State of California.

## **2.4 Finished Grading Plan Requirements**

Grading Plans for all developments shall be submitted as part of the Improvement Plans and shall detail the following minimum requirements:

- Slope symbols for all slopes 4:1 or steeper.
- Typical lot grading details.
- Proposed spot and/or pad elevations. All lot corner elevations shall be shown on the Grading Plan.
- Flow directional arrows both on-site and off-site and perimeter elevation at the property line.
- Existing spot elevations and contour lines on-site and off-site around the perimeter of the development. Contour lines shall be shown in increments of one (1) foot. The spot elevations or contour lines shall be extended off-site for a minimum distance of 50 feet.
- Existing trees (variety, size and elevation at the base of all trees six (6) inches in diameter or larger).
- A Certificate of Compliance of Grading with signature blocks for both the Registered Civil Engineer and the Geotechnical Engineer licensed in the State of California shall be provided stating the following:

### **CERTIFICATE OF COMPLIANCE**

I hereby certify that the grades shown on these plans and approved by the Development Services Department have been constructed to within 1/10<sup>th</sup> of one (1) foot of their indicated elevation for all lot pads and improvements shown.

Project Engineer

PE Number

Date

I hereby certify that the pads for the following lots for this project have been tested for compaction in accordance with generally accepted test methods and based upon the results of these tests the compaction of said pads conforms to the recommendations of this project's geotechnical report:

Lots:

I also state that our firm observed the grading operation to a sufficient extent to evaluate conformance with the project's geotechnical report as approved by the City, and further state that based upon our observations, the grading for this subdivision conforms with the recommendations of said soil report.

Geotechnical Engineer

PE Number

Date

- Back of sidewalk elevations at property lines, curb returns, high and low points, and other areas deemed necessary by the City Engineer.
- All existing and proposed surface and subsurface drainage facilities including drain inlets, underground pipes, surface swales, and any other drainage improvement proposed to be constructed with, or as a part of, the proposed work.
- Location of existing and proposed buildings or structures on the site, including proposed pad and/or finished floor elevation. Proposed residential plot plans should not be shown on the Grading Plans.
- Location of existing and proposed buildings or structures on the land of adjacent owners which are within fifteen (15) feet of the property and which may be impacted by the proposed grading operations.
- Location of all existing and proposed retaining walls.
- Typical sections across side yard property lines where the difference in finish pad elevations exceeds one (1) foot.
- Names of adjacent subdivisions.
- Off-site intersecting property lines.
- For all projects involving the export of soil material:
- Location of spoiled disposal. If spoil area is within the City, a separate Conditional Use Permit is required for that site.
- Spoil areas shall meet all the requirements of these standards.
- Silt retention and erosion control details as necessary and specified in these Standards.

- Location of temporary protective fencing for environmentally sensitive areas such as: creeks, wetlands, vernal pools, perennial streams, and preserve areas.

## 2.5 Rough Grading Plan Requirements

Grading Plans for subdivisions and all developments located within the City shall conform to the same requirements as those specified for Finished Grading Plans excepting the following:

### A. Improvements

Only existing improvements such as utilities, curbs, gutters, etc. shall be shown. Utilities and streets to be constructed with the Improvement Plans shall not be shown as part of the Rough Grading Plans.

### B. Drainage

All rough plans shall provide for positive surface drainage flow except in those instances provided on the plans for erosion and/or sedimentation control.

## 2.6 Design Requirements

### A. Boundary Grading

Special attention shall be given to grading adjacent to the exterior perimeter property line of a development. All adverse effects to off-site properties adjacent to new developments shall be kept to an absolute minimum. Fills and cuts adjacent to the exterior perimeter property line shall be designed in accordance with the following:

When grading along existing residential property, the grade should be, held equal to or lower than the existing property grades, unless otherwise approved by the City Engineer. When grades are to be raised higher than existing adjacent residential lots, a masonry retaining wall shall be used, regardless of the difference in elevation. The wall shall be located as close to the property line as is feasible for construction. If permission can be obtained from the adjacent property owner(s), the wall should be placed on the property line or onto the lower lot and the fence relocated to the top of the wall.

If possible, all exterior slopes, fill or cut, shall be constructed off- site, with the property line being situated a minimum of two (2) feet inside the higher elevation. If a right of entry cannot be obtained, a retaining wall shall be placed as near to the property line as practicable.

A recorded notarized right of entry shall be required for all off-site fills and grading prior to plan approval.

Fill slopes adjacent to designated open spaces shall have a maximum slope of 3:1. Exceptions to this specification may be made where physical constraints restrict the use of 3:1 slopes, at the discretion of the City Engineer. The maximum slope of all other boundary grading shall be 2:1 or as specified by the Geotechnical Engineer.

All slopes steeper than 4:1 adjacent to the public right-of-way and private streets shall be protected with permanent erosion control measures.

All fill material shall achieve 90 percent relative compaction certified by a Registered Geotechnical Engineer.

When a drainage swale or ditch is proposed to run adjacent to the property line, a level area, minimum width of five (5) feet is required between the property line and the top of the slope bank.

A specific haul route shall be approved by the City Engineer when a large quantity of imported or exported soil is required. Where a haul route has not been determined at the time of plan approval, the permit shall be conditioned stating that no grading activities shall occur until a haul route has been approved by the City Engineer.

## **B. Interior Grading**

Differences in elevations across interior property lines within a development, such that slopes or retaining walls are required, shall conform to the following:

Cross lot drainage is not allowed unless specifically approved by the City Engineer for tree preservation. All single-family residential lots shall have grading as per the Standard Details unless approved otherwise by the City Engineer. When a grading plan is proposed as part of a tentative map application for a single-family residential subdivision, the tentative grading plan showing rear lot drains shall be supplemented with an alternative plan showing the effect on the subdivision if rear lot drains are not utilized.

Retaining Walls shall be required whenever adjacent side lot elevations differ by more than  $\frac{1}{2}$  foot. In such cases, a minimum three (3) foot wide walk path shall be maintained adjacent to all side property lines. Where the Consulting Engineer feels that this path will be maintained without the use of a retaining wall, application for a waiver may be made by preparing and submitting a site plan scale on 8-1/2" X 11" reproducible paper for each lot which is requested to be exempted, or by submitting a standard Lot Grading and Setback Guarantee. The Lot Grading and Setback Guarantee shall specify which lots for which a waiver of the retaining wall requirement is requested, shall state the minimum setback of the proposed structure from the toe of slope, and shall state that should the minimum setback not be possible during construction, a retaining wall shall be constructed to the requirements of these Standards. Upon approval, a copy of these will be given to the Building Division to utilize in their review. Any deviation from these plans will be subject to approval by the Engineering Division.

Property lines shall be situated a minimum of 1.0 foot inside the top of fill or cut slopes when pad elevations differ by  $\frac{1}{2}$  foot or less. When retaining walls are used, the property lines shall be situated on the high side of the retaining wall with a minimum setback of 1.0 foot from the property line to the retaining wall. Where pad elevations differ by more than  $\frac{1}{2}$  foot and waiver of placement of retaining walls is required per the requirements stated above, property lines shall be situated a minimum of 2.0 feet inside the top of fill or cut slopes.

The maximum earth slopes allowed shall be 2:1 (horizontal to vertical). Minimum asphalt concrete surface slopes shall be 1% and minimum concrete cement surface slopes shall be 0.25%. All proposed slopes that are 3:1 or steeper shall be shown on the plans by some type of slope symbol delineation.

Lots on the low side of streets at sag points shall have pad elevations a minimum of one (1) foot above the 100 year water surface elevation assuming failure of all subsurface drainage systems.

### **C. Retaining Walls**

Retaining walls, when required, shall be shown on the plans and shall include all necessary information and details for construction. All retaining walls adjacent to the public right-of-way or along the exterior boundary of the project shall be masonry. All walls higher than three (3) feet as measured from base of foundation to top of wall shall be substantiated with structural calculations stamped by a Registered Civil Engineer licensed in the State of California and a Building Permit shall be obtained from the Building Division.

### **D. Stormwater Pollution Prevention Plan (SWPPP)**

A site specific SWPPP shall be submitted concurrently with the Improvement and/or Grading Plans when a project disturbs land. For information concerning the preparation of a SWPPP, the Consulting Engineer should refer to the County of Butte's Storm Water Program, and the California Stormwater Quality Association (CASQA). "Stormwater BMP Handbook / Construction", and the State of California NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities.

The submitted SWPPP shall match identically to that of the SWPPP submitted to the State Water Resources Control Board via their electronic SMART system, up until the time improvement plans are approved, encroachment and/or grading permits are issued, and construction commences.

SWPPPs are not required for projects under one acre, unless they are part of a larger development encompassing over one acre. For projects less than one-acre, an erosion and sediment control plan shall be submitted with the improvement plans to the City for approval. This is generally part of the Grading Plan for the development. The City will accept the erosion and sediment control plan upon review of the project. All erosion and sediment control devices shall be identified and implemented in the same fashion as projects with SWPPPs over one acre. Enforcement will be conducted similarly, with the exception to SWPPP administrative requirements.

**SWPPP Site Plan Requirements** - SWPPP site plan(s) shall be submitted along with other SWPPP State permit required documents.

The discharger shall ensure that the SWPPP for the project site is developed and amended or revised by a Qualified SWPPP Developer (QSD). The SWPPP shall be designed to address the following:

- All pollutants and their sources, including sources of sediment associated with construction, construction site erosion and all other activities associated with construction activity are controlled.
- All non-storm water discharges are identified, and a description of how they will be either eliminated, controlled, or treated.
- Site BMP's are effective and result in the reduction or elimination of pollutants in storm water discharges and authorized non-storm water discharges from construction activity to the BAT/BCT standard.
- Calculations and design details as well as BMP controls for site run-on are complete and correct.
- Stabilization BMP's are installed to reduce or eliminate pollutants after construction is completed.

- Phasing of Erosion Control Measures - The City Engineer may require phasing of the SWPPP plan(s) to ensure that all necessary erosion control measures are taken during separate phases of construction. As an example, this may require the Developer to construct sediment traps and basins during the first phase of grading operation.
- To demonstrate compliance with requirements of the SWPPP, the QSD shall include information in the SWPPP that supports the rational used in selecting BMP's including supporting soil loss calculations, if necessary, conclusions, selections, use, and maintenance of BMP's
- The discharger shall make the SWPPP available at the construction site during working hours while construction is occurring and shall be made available upon request by State or City inspectors. When the original SWPPP is retained by a crew member in a construction vehicle and is not currently at the construction site, current copies of the BMP's and map/drawing will be left with the field crew and the original SWPPP shall be made available via request by radio/telephone.

**SWPPP Control Measures Requirements-** The following is a list of requirements for erosion and sediment control measures, also referred to as BMPs (Best Management Practices). The following erosion and sediment control requirements shall be part of site specific SWPPPs.

- All sediment control measures (drain inlet protection, perimeter protection, stabilized construction access, etc.) shall be implemented prior to the commencement of grading operations or other construction activities or as approved by the City Engineer. Grading during the wet season should be minimized.
- An adequate supply of erosion and sediment control materials (fiber rolls, blankets, mats, straw bales, silt fencing, etc.) shall be stored onsite throughout the course of construction and made available for maintenance and repair work.
- Straw, when used, shall be broadcast, or hand distributed, at a rate of 4000 pounds per acre. Straw shall be anchored to soil surface by "punching", "pressing", or by using a tackifier.
- Slopes steeper than 4:1 and adjacent to the City right-of-way, flood plains, natural drainages, park land or designated open space shall be broadcast seeded and covered with a blanket material grade appropriate to the steepness and length of the slope. Alternative methods shall be approved by the City Engineer.
- All areas of disturbed soil, regardless of slope, shall be protected for erosion control. For measures approved by the City for erosion control, see Butte County's Storm Water Program, and the State of California NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities.

## **E. Mitigation monitoring Requirement**

All mitigation measures and mitigation monitoring measures as required to mitigate environmental impacts shall be complied with. The Developer is responsible for monitoring all mitigation measures and shall submit to the Planning Department a letter certifying compliance with such measures.

## **F. Certifying Pad Elevations**

Upon completion of the grading and prior to acceptance of the subdivision improvements or issuance of building permits by the City, the Consulting Engineer shall verify the final pad elevations. The elevations shall be verified at the center and the corners of each pad. Pad grades shall be certified to an accuracy of 0.10 feet.

A signature block, certifying that final graded elevations in the field are the same as those shown on the plans, shall be included on the grading plans. The Consulting Engineer shall sign the signature block, certifying to the above, record (as-built) Grading Plans to the City Engineer

## **G. Maintenance of Access to Utility Facilities**

Continuous, suitable access shall be maintained during all stages of construction to any facility owned or operated by a utility/district providing essential services (i.e. sanitary sewer, water, drainage, electricity, gas, telephone,etc.).

## **2.7 Installation**

All grading improvements shall be installed in accordance with provisions in Chapter 33 of the UBC, recommendations of site-specific geotechnical reports and geotechnical engineer, provisions in the Caltrans Standard Specifications, the approved improvement plans and per the following specifications:

### **A. Channels**

All fill areas in channels shall receive suitable fill material to be compacted to a minimum of 90 percent relative compaction. The Developer's geotechnical engineer will determine suitable fill material. Unsuitable materials shall be removed from the channel and replaced with suitable backfill material based on recommendations provided by a State of California licensed geotechnical engineer.

### **B. Erosion Control Measures**

Construction sites shall have required erosion and sediment control measures in place between October 1 and April 30. All projects shall have adequate sediment control measures in place prior to ground disturbance regardless of time of year. If construction is in progress, the Contractor shall ensure that the construction site is prepared prior to the onset of any storm. For Stormwater quality compliance information, refer to the California Stormwater Quality Association (CASQA). "Stormwater BMP Handbook / Construction", latest edition. Water ways under the jurisdiction of governmental agencies other than the City may be subject additional erosion control measures or criteria and is the responsibility of the Developer/Owner.

All bare areas, regardless of slope, within 50 feet of natural drainages and active stormwater collection systems shall be covered with straw, erosion control blankets, hydromulch, or other types of soil stabilizers suitable for elimination soil migration. A City Stormwater Inspector may require additional control measures be installed if deemed necessary.

### **C. Roadways**

**Compaction** - Relative compaction of not less than 95 percent shall be obtained for a minimum depth of 0.5 feet below the subgrade grading plane for the width between the

outer edges of shoulder, including curb and gutter areas, whether in excavation, embankment or at original ground level. All other material shall be compacted to a relative compaction of 90 percent.

**Grade Control** - When the next layer to be placed on the subgrade is an asphalt concrete pavement, asphalt concrete base or asphalt concrete subbase, the subgrade grading plane at any point shall not vary more than 0.05 foot above or below the grade established by the project surveyor.

**Stability Testing** - The Contractor shall proof roll the subgrade areas with a fully loaded, 3,000 gallon water truck prior to placement of aggregate base or aggregate subbase. The City's Inspector shall approve the equipment used for proof rolling.

**Unsuitable Materials** - Any unsuitable material encountered within 2 feet below subgrade or 2 feet below original ground shall be removed and replaced with a suitable backfill material. Suitable backfill materials and methods for placement are to be reviewed and approved by the on-site geotechnical engineer. Other methods for subgrade stability may be used upon review and approval of the Developer's geotechnical engineer.

## 2.8 Soil Testing Procedures and Frequencies

### A. Field Testing

**Field Density Testing** - Field density test for earthwork and backfill will be performed by either the owner's Independent Testing Laboratory (ITL), or the City's Geotechnical Engineering Consultant, at the discretion of the City Engineer as follows:

Private property building areas including 10 feet outside the exterior building lines shall be tested by the property owner's Geotechnical Engineer with proper written pad certifications submitted to City Building Official prior to foundation placement.

Public Right-of-Way - All grading operations, which involve revision to existing contours for the purpose of accepting right-of-way improvements, shall require written and stamped certification from a licensed California Geotechnical Engineer.

Test Method-In-place nuclear density, ASTM D2922 (Method B-Direct Transmission) to check conformance to requirements of Geotechnical Report, project plans, specifications, and of these Standards. In addition to testing, the field technicians shall observe ALL backfill operations to ensure methods consistent with those that achieved minimum required compaction results are used throughout the backfill process. The field technician shall record these observations in the Daily Field Reports (DFR's). The field technician shall perform additional testing when the operations deviate from proven practices even if testing at the frequencies required below has already been performed. Samples for compaction curves shall be taken at the discretion of the technician or as directed by the City's field representative.

The City expects testing at a higher frequency at the discretion of the field technician or City's Inspector if there is any reason to doubt the effectiveness of the operations or the precision of the test results, and when a material change is observed in the soil being compacted. These tests shall be recorded in the DFR.

## **B. Minimum Reporting Requirements**

**Daily Field Reports (DFR)** - All testing and observations shall be recorded in a DFR. The DFR shall include all field density testing; test tables and/or plans shall show the field-recorded dry density, moisture content, reference laboratory compaction test used and any moisture offset used based on supplemental laboratory testing. All test results indicating less than minimum compaction shall be recorded in the DFR's along with the observation of corrective operations and retest results. DFR's shall also indicate where observation and soil probing was performed in between nuclear gauge testing.

## **C. Mass Grading Testing Frequencies**

Large Area Density Testing – One test per 1,000 to 2,000 cubic yards. A separate compaction certification report is required for City right-of-way limits.

Small Area Density Testing – One test per 500 cubic yards or each 10,000 square feet of fill.

## **D. Trench Backfill Testing Frequencies**

**Utility Installations** - Observe all bedding, shoring, shovel slicing, and filter fabric installation procedures for compliance with City Standards and project plans and specifications. Observations shall be documented in DFR's along with measures taken to correct noncompliant items.

**Compaction Testing** – Compaction Testing shall conform to Caltrans standards for frequencies and type.

**Performance Specification Observation** - (Deep Trenches or Rocky Material), Performance specifications shall be used to verify compaction efforts where vertical cuts or other issues prevent safe entry for nuclear gage density testing. A series of tests will be performed at the beginning of the backfill operations in a protected area of the trench to determine the minimum number of passes, acceptable equipment, moisture conditions, and maximum loose lift thickness. Once the procedure is approved, full-time observation will be performed to check that operations comply with the approved performance specifications. The field technician shall require the contractor to provide access for further testing by the field technician if, in the opinion of the City's Inspector, conditions change such that observation alone will not suffice to verify compliance or if the material or equipment used to backfill the trench changes such that re-evaluation or compaction procedures is required. Adequate compaction of material containing more than 30 percent rock larger than  $\frac{3}{4}$  inch shall be verified via performance specifications. The ITL shall develop the performance specification and, if none exists, perform full-time observation of the operations to verify compliance. Field observations shall be recorded in the field technician's DFR's as described above. The DFR shall clearly reference approximate stations and elevations over which the observation of performance specification was performed.

**Dry Utility Trenches** - Installation of Electric Department facilities shall be according to the Gridley Electrical Department.

**Manholes** - Areas around manholes shall be tested every vertical foot. Testing methods and recordings shall be as described above.

**Utility Services to Residences** - Test at least every other lift on a minimum of 50 percent of the services.

## **2.9 Materials**

### **A. Retaining Walls**

**Concrete/Masonry/Rock Walls** - All concrete, masonry, or rock walls shall conform to materials and specifications provided by the wall manufacturer or designing engineer.

## Section 1 - Streets

### General

Street surface improvements shall include barricades, bikeways, bridges, bollards, curb, curb & gutter, driveways, pavement, curb ramps, sidewalk, survey monuments and tunnels. These improvements shall be installed in accordance with the approved improvement plans, these Standards and the latest edition of The State of California Department of Transportation Standard Specifications hereinafter referred to as the Caltrans Standard Specifications latest edition and as specified by the City Engineer. No Street shall be cut, nor any public improvement disturbed until the Developer/Contractor has obtained an encroachment permit from, and/or entered into a subdivision agreement with the City.

### Connection to Existing Improvements

Connection to existing surface improvements require that the following conditions be met:

#### A. Existing Stub Street Connection

The Developer shall be responsible for removing and reconstructing a portion of the existing roadway to make a satisfactory connection, as required by the City Engineer.

#### B. Street Widening

When widening to complete a partial street along a development project, the Developer shall be responsible for saw cutting and removing a narrow strip along the outside portion of the pavement to provide a clean and stable pavement section for constructing against. The width from centerline shall be shown on the approved plans or as determined in the field, and verified by the City Engineer. Following construction of the adjacent curb and gutter, paving shall not commence until the City's Construction Inspector is satisfied that the cross grade between the existing pavement edge and the new gutter lip conforms to or approaches the City's required 2% cross grade. 3% is the maximum cross grade allowed, unless shown on the approved plans.

#### C. Sawcutting

When sawcutting within the street for trenching or other purposes, Contractor shall grind 1-1/2 inches of pavement between the lane lines (from lanestripe to lane stripe). Upon completion of the sawcutting and/or trenching work, where the sawcutting occurs between the curb and gutter and nearest lane stripe (including bike lanes), the same 1-1/2 grind shall be required. Contractor shall place a Petromat fabric or approved equal by the City and overlay from lane stripe to lane stripe, or curb to lane stripe and restripe or replace any delineators removed during the grind.

### Street Classes and Design Widths

For purposes of geometric and structural design of all new public streets, streets shall be classified according to the following requirements, and the appropriate Standard Drawings. Under certain circumstances, particularly within the infill areas of the City where curb and gutter vary, changes to the standards can be made at the discretion of the City Engineer.

#### A. 20-Foot Street (Alley)

A Street depressed in the center with a right-of-way and surface width of 20 feet. See Standard Drawing ST-15.

## B. Residential Streets

Where residential streets serve Low Density Residential (LDR) and Medium Density Residential (MDR) subdivisions, and some High Density Residential (HDR) the following standards apply.

**Minor Residential with Attached Sidewalks:** A residential street servicing 100 or fewer lots shall be classified as a minor residential street. Minor residential streets shall have a right of way of 50 feet, and back or curb to back of curb width of 39 feet. See Standard Drawing ST-01.

**Collector/Industrial – Attached Sidewalks:** A Street serving an industrial/commercial subdivision or a residential subdivision along which no home frontage is allowed shall be classified as a collector/industrial street. Collector/industrial streets with two drive lanes and one center turn lane shall have a right-of-way width of 62 feet, and back-of-curb to back-of-curb width of 51 feet. Collector/industrial streets with two drive lanes only shall have a right-of-way width of 50 feet, and back-of-curb to back-of-curb width of 39 feet. Additional right-of-way and pavement shall be provided at intersections for deceleration lanes, bus turnouts, and turn lanes, as specified by the City Engineer. See Standard Drawing ST-02.

**Collector/Industrial – Detached Sidewalks:** A Street serving an industrial/commercial subdivision or a residential subdivision along which no home frontage is allowed shall be classified as a collector/industrial street. Collector/industrial streets with two drive lanes and one center turn lane shall have a right-of-way width of 52 feet, and back-of-curb to back-of-curb width of 52 feet. On each side of the right of way is a 12.5' PUE/TCE. Additional right-of-way and pavement shall be provided at intersections for deceleration lanes, bus turnouts, and turn lanes, as specified by the City Engineer. See Standard Drawing ST-03.

**Minor Arterial with Onstreet Parking:** Those roads specified in the City's Capital Improvement Program as requiring a four-lane roadway shall be classified as minor arterials. Minor arterial shall have a right-of-way width of 80 feet and back-of-curb to back-of-curb width of 67 feet and shall provide a center 2-way left lane or raised landscape median as specified by the City Engineer. Additional right-of-way and/or pavement may be required for bus turnouts and at intersections and driveways for acceleration lanes, deceleration lanes, and multiple left turn lanes, as specified by the City Engineer. See Standard Drawing ST-04.

**Commented [AH1]:** How do we want to classify these?

**Arterial with No Parking:** Those roads specified in the City's Capital Improvement Program as requiring a four-lane roadway shall be classified as minor arterials. Minor arterial shall have a right-of-way width of 80 feet and back-of-curb to back-of-curb width of 69 feet and shall provide a center 2-way left lane or raised landscape median as specified by the City Engineer. Additional right-of-way and/or pavement may be required for bus turnouts and at intersections and driveways for acceleration lanes, deceleration lanes, and multiple left turn lanes, as specified by the City Engineer. See Standard Drawing ST-04.

**Commented [AH2]:** How do we want to classify these?

**Cul-de-Sac /Offset Cul-de-sac:** The length of cul-de-sac streets as measured from the centerline of the intersecting street to the center of the bulb, shall not exceed 500 feet, without the approval of the City Engineer. In the case of stub streets associated with phased development, the combined street lengths as measured from the dead-end to the nearest through street shall be in accordance with the requirements for cul-de-sacs. Stub streets shall be terminated with a temporary bulb. See Standard Drawing ST-05 and ST-06.

**Standard Elbow:** The standard elbow can be used on Industrial type streets with a radius of 60 feet. See Standard Drawing ST-07.

### Right-of-Way-Width

Right-of-way widths shall be in accordance with these standards for the street classification under consideration or as determined by the City Engineer. In no instance, without approval of the City Engineer, shall a street have a right-of-way width that is less than the street of which it is a continuation. Right-of-way requirements for widening at intersections shall be as specified by the City Engineer.

Building setbacks, landscaping requirements, and parking requirements shall be based on the ultimate right-of-way, regardless of the location of public street improvements.

A minimum 10-foot public utility easement (P.U.E.) shall be dedicated adjacent to minor residential streets and arterials and shall include traffic control appurtenances. Additional easement for sewer, water, storm drainage, landscaping, fencing, and all other public utilities shall be provided as required by the utility companies, these Construction Standards, and as specified by the City Engineer.

A minimum 12.5-foot public utility easement (P.U.E.) shall be dedicated adjacent to all collector/industrial streets and shall include traffic control appurtenances. Additional easement for sewer, water, storm drainage, landscaping, fencing, and all other public utilities shall be provided as required by the utility companies, these Construction Standards, and as specified by the City Engineer.

Along the frontage of collector and arterial roadways, the right-of-way dedication shall include the landscape corridor adjacent to parcels zoned single-family residential (SFR).

### Roadway Signage and Striping

Signing and striping shall conform to the latest edition of the California Manual of Uniform Traffic Control Devices, (CMUTCD), unless modified by these standards, or in writing by the City Engineer.

### Structural Section

All pavement sections shall be designed on the basis of the resistance R-value as determined in accordance with the State of California, Department of Transportation design method and appropriate traffic indices (TI). If the subgrade has an "R" value of 10 or less, a geotextile fabric or other approved product shall be installed on subgrade prior to placement of AB or ASB material. In addition, the City Engineer may require the installation of edge drains in soils where the "R" value of the subgrade is 10 or less. The Geotechnical Engineer may submit for treatment of the subgrade material, with lime or cement or other approved product if suitable soils exist. This may be considered in lieu of geotextile fabric and base material with approval of the City Engineer. The resulting structural section shall be no less than City Standard Detail ST-20.

### Curb and Gutter Requirements

Curb and/or gutter are required adjacent to all public and private streets. All sidewalk, curb and gutter shall be constructed of minor concrete conforming to the "Minor Concrete" section of

the most recent Caltrans specifications. Curb and gutter transitions shall be according to Caltrans Standard Drawing ST-09.

**A. Type A4 Rolled Curb and Gutter**

Type A4 rolled curb and gutter shall only be installed in residential areas on local streets which do not have existing vertical curb and gutter. Installation of rolled curb and gutter on streets which have existing vertical curb and gutter will require approval from the City Engineer. See Standard Drawing ST-08.

**B. Type A1 Vertical Curb**

Type A1 vertical curb shall be installed where there is no existing gutter, or no proposed gutter due to extenuating design constraints. See Standard Drawing ST-08.

**C. Type A2 Vertical Curb and Gutter**

Type A2 vertical curb and gutter shall be installed adjacent to all multiple residential, industrial/commercial developments, school and park sites, poured monolithically with sidewalk or as specified by the City Engineer. See Standard Drawing ST-08.

**D. Type A3 Vertical Curb**

Type A3 vertical curb shall be installed when curb needs to be superimposed on existing pavement adjacent to all multiple residential, industrial/commercial developments, school and park sites, or as specified by the City Engineer. See Standard Drawing ST-08.

**E. Valley Gutter**

Valley Gutter may be used for alleys and parking lots. Valley Gutters shall not be used in either public or private streets.

## **Sidewalk Requirements**

Sidewalks shall be constructed adjacent to all public streets. All sidewalks shall be Minor Concrete as specified in "Minor Concrete" section of the most recent Caltrans specifications. All sidewalks shall have a minimum thickness of six (6) inches on native soil, at 95% relative compaction, or four (4) inches thick with four (4) inches of AB at 95% relative compaction, and shall meet the following requirements:

**A. Width**

The required minimum width of sidewalks shall be as listed in Table 1-1 . The width of the curb shall not be considered as included in the width of the sidewalk. The minimum sidewalk width is 4 feet.

*Table 1-1 Sidewalk Width*

Street Type	Sidewalk Width (feet)
Minor Residential with Attached Sidewalk	5
Collector/Industrial with Attached/Detached Sidewalk	5
Minor Arterial with On street Parking	6
Arterial with No Parking	5

## B. Slopes

Gutter Pan cross slope shall not exceed 5% maximum in front of a curb ramp access. Sidewalks shall not exceed a maximum cross slope of 2% or a minimum of 1% unless otherwise approved by the City Engineer.

## C. Curb Returns

Curb returns shall be constructed on a curve having a radius equal to that shown in Table 1-2:

*Table 1-2 Curb Returns*

Street Type	Minimum Curb Return Radius (feet)
All residential street intersections	30
Cul-de-sac	40
Arterial Streets	30
Collector/Industrial Streets	30

## D. Pedestrian Curb Ramps

Pedestrian curb ramps shall be provided at all intersections and driveways with attached sidewalk. All curb ramps shall conform to the requirements of these standards and the most current Caltrans standards and accessibility standards. It is the design engineer's responsibility to ensure that the intersection slopes designated on the improvement plans allow for the construction of pedestrian curb ramps that meet the above criteria.

At "T" intersection located at signalized intersections, ramps shall be constructed in the appropriate position on the side of the through street, directly opposite the ramps at the curb return of the "T" intersecting street. Such ramps are not required on the side of the through street on residential streets unless the distance to the next available street crossing is greater than 500 feet.

## Roadway Profile Standards

The following standards shall apply to the design of roadway profiles.

### A. Grades

The minimum centerline (longitudinal) grades on new streets and gutter flow lines shall be 0.25 percent. The minimum grade of gutters sections constructed along existing streets shall be 0.20 percent. The maximum street slope shall be per Table 1-3:

*Table 1-3 Grades*

Street Type	Maximum Grade
Arterial Streets	8%
Collector Streets	10%
Minor Streets	15%

## B. Cross Slopes

Standard cross slopes shall be 2.0 percent on all roadways. Certain roadways may require super elevations as directed by the City Engineer. Cross slopes on widened existing streets shall be a minimum of 1.5 percent and maximum of 3.0 percent. Where a street constructed with a superelevation is to be widened, the cross slope shall be as specified by the City Engineer.

## C. Vertical Curves

The minimum allowable vertical curve length at the intersection of two grades shall be 50 feet; however, vertical curves may be omitted where the algebraic difference in grades does not exceed 2.0 percent. When vertical curves are required, they shall provide for adequate sight distance based on the minimum design speeds specified in Table 1-4. The vertical curve data shall be computed and shown on the plans and shall call out the tangent gradient length of curve, the elevations and stationing points of the beginning of vertical curve (BVC), end of vertical curve (EVC), PI, high and lowpoints and along 25 foot intervals.

## Intersections

Street centerlines shall intersect one another at an angle as near to a right angle as is possible by tangents not less than 100 feet in length. In unusual circumstances the City Engineer may waive this requirement. Refer to Standard Drawings for required rights-of-way, pavement, taper lengths, etc. for intersections involving minor and major arterials.

At intersections, where two streets intersect, the centerline grade of the major street shall have a maximum centerline (longitudinal) grade of 2.0 percent for a minimum distance of 40 feet measured from the curb line of the intersecting street, except in unusually rough terrain, as determined by the City Engineer. The centerline of the minor street shall meet the crown slope at the projected lip of gutter. Crown slope may be reduced to 1.0 percent within the intersection if necessary.

## Offset Intersections

The following requirements apply to all offset intersections. Any variation to these requirements shall be subject to the approval of the City Engineer. **Distances are measured from centerline to centerline.**

1. Residential streets intersecting another residential street from opposite sides shall have their centerlines meet, or the offset between intersections shall be a minimum of 150 feet.
2. Minor and primary residential streets intersecting collector streets from opposite sides shall have their centerlines meet or the offset between the intersections shall be a minimum of 200 feet.
3. Minor and primary residential streets, and collector/industrial streets intersecting minor or arterial streets from opposite sides, shall have their centerlines. This condition shall not apply where a raised center median is provided on the major street separating conflicting turning movements.
4. Intersections between two arterials shall have their centerlines meet, or the offset between the intersections shall be a minimum of 1320 feet.

## Elbow Intersections

Use of expanded corners shall be limited to projected low volume residential, commercial and industrial streets and conditions where conformance to minimum horizontal length of centerline radius is not practical, and shall be subject to approval of the City Engineer.

## Design Speed Sight Distances

### A. Stopping Sight Distance

The minimum stopping sight distance over any segment of roadway shall be designed for the vehicle speeds listed in Table 1-4 unless specific approval for a lesser design speed is received from the City Engineer. Minimum stopping sight distance shall be consistent with that specified in the latest edition of Caltrans Highway Design Manual. The design stopping sight distance requirement is based on 3.5-foot height of eye and a 6-inch height of object.

*Table 1-4 Stopping Sight Distances*

Street Type	Roadway Design Speed (mph)	Required Stopping Sight Distance (feet)
Minor Residential	30	200
Collector/Industrial	45	360
Minor Arterial with Onstreet Parking	55	500
Arterial with No Parking	60	580

### B. Sight Distances for Cars Entering Side Streets or Driveways via Left Turn in

The design of left turns from public and private roadways entering streets and driveways shall provide minimum sight distance in accordance with Table 1-5 (single family residential exempt).

*Table 1-5 Entering Cars Sight Distance*

Street Type	Required Sight Distance (feet)
Collector/Industrial	410
Minor Arterial with Onstreet Parking	530
Arterial with No Parking	695

Sight Distance is based on a 3.5 foot height at the location of the driver and a 3.5 foot object height in the center of the approaching lane of the major road. The left turn driver measurement is taken 4 feet from the left edge of the turn lane at the projected edge of the curb return (as shown above). If the major road is a multi-lane road, the controlling measurement for sight distance shall be based on the approach lane that is the worst case scenario.

### C. Corner Sight Distances for Cars Exiting at Intersections and Driveways

The design of all public streets, private streets, and major non-residential driveways shall provide minimum sight distance in accordance with the following requirements. Design speeds and the corresponding minimum required corner sight distance shall be as specified in Table 1-6. Minimum corner sight distance shall be consistent with that specified in the latest edition of Caltrans Highway Design Manual.

*Table 1-6*

Street Type	Corner Sight Distance Design Speed (mph)	Required Corner Sight Distance (feet)
Minor Residential	30	330
Collector/Industrial	45	495
Minor Arterial with Onstreet Parking	55	605
Arterial with No Parking	60	660

Setback for the driver of the vehicle on the crossroad shall be a minimum of 10' from the edge of travel way plus the shoulder width of the major road, but not less than 15 feet as shown above. Line of sight for corner sight distance is to be determined from a 3.5 foot height at the location of the driver of the vehicle on the minor road to a 4.25 foot object height in the center of the approaching lane of the major road. (Highway Design Manual). If the roadway being entered is a multi-lane road, the controlling measurement for sight distance shall be based on the approach lane that is the worst case scenario.

## Driveways

When driveways are abandoned or relocated, the driveway section shall be removed and replaced with curb, gutter, and sidewalk conforming to these standards at no cost to the City. Parking is restricted within the throat depth of all driveways.

All new driveways shall conform to the following requirements and Standard Details ST-13, and ST-14:

### A. Widths and Locations

Single Family Residential and Duplex Driveways shall have a minimum bottom width of 12 feet, exclusive of the transition to full curb height at both ends. The maximum width shall provide for a bottom width of 24 feet, exclusive of the transition to full curb height at both ends.

The minimum width for all other driveways shall provide for the safe efficient and economical movement of traffic and shall be approximately 24 feet, exclusive of the transition to full curb height at both ends.

The maximum width of all commercial driveways shall be 35 feet, exclusive of the transition to full curb height at both ends, except this may be increased by the City Engineer where necessary to provide safe, efficient, and economical movement of traffic.

In the case of a driveway located adjacent to an alley, if approved by the City Engineer, the driveway apron may be combined with the alley but the total combined width shall not exceed 40 feet.

The driveway width may be modified by the City Engineer to facilitate turning movements where curb lanes are used.

The minimum length of full curb height between a driveway and a side property line shall be 3 feet. The minimum length of full height curb between driveways on adjacent lots shall be 6 feet unless specific approval is given by the City Engineer. No driveway shall be located closer than 6 feet from an existing or future alley entrance except as provided elsewhere in these standards. Where two or more driveways are constructed on the same lot, the minimum length of full height curb between driveways shall be 24 feet. Where practical to provide parking, the total length of full height curb between driveways shall be in multiples of 22 feet.

No driveway shall be located closer than five feet from a fire hydrant, traffic signal, street light, utility pole, or guy wire.

#### **B. Slopes and Grading**

The maximum grade for all driveways shall be limited to 12.5%, and 8% is desirable for commercial driveways. Sidewalk cross grade through the entire driveway shall be 1% minimum, 2% maximum.

#### **Construction Staking**

Construction staking shall be provided by the Developer for all surface improvements. Such staking shall provide the station and offset, as well as the cut to the nearest hundredth (0.01) of a foot. Stakes shall be provided at a minimum of every 50 feet in tangent sections and every 25 feet in curved sections. Monuments shall have straddle ties placed.

Cut sheets for the appropriate phase of work shall be on-site and shall be furnished to the City's Construction Inspector upon request.

The engineer's California Registered land surveyor shall stake the grades and location for the top and bottom of slope for all curb ramps.

#### **Developer Responsibility for Improvements to Streets**

The following requirements apply to private development project adjacent to existing and proposed streets.

The Developer shall be responsible for upgrading streets within and adjacent to the developer's project where the pavement section of an existing street does not meet the structural section and/or the centerline grade and alignment requirements specified in these Construction Standards for those streets.

Where the design centerline grade is to be higher than the existing, the Developer shall extend the overlay beyond the centerline of the street and shall neatly conform to the existing surface grade on the other side. The Developer shall also be responsible for overlaying any low areas where the new pavement is proposed to meet the existing pavement to maintain a uniform cross slope.

When making a connection to an existing stub street, the Developer shall be responsible for removing and reconstructing up to a maximum of twenty feet of the existing roadway to make a satisfactory connection as required by the City Engineer.

When widening to complete an existing partial street along a development project, or when removing existing curb and gutter, the Developer shall be responsible for saw cutting and removing a narrow strip along the outside portion of the pavement to provide a clean and stable pavement section for constructing against. Grinding of existing pavement (1½-inch minimum) shall be made to the next nearest edge of lane line. The width to be removed shall be determined by the City Engineer. In the case of curb and gutter removal, minimum width of pavement cut shall be 2 feet.

All temporary approaches to existing roadways required as a result of the development shall be at the Developer's expense. The temporary approaches shall be paved with the structural section to be determined individually for each situation.

The Developer shall be responsible for relocating existing traffic signals and streetlights, and installing new traffic signals and street lights as necessary for new street and driveway locations. The Developer shall also be responsible for relocating existing traffic signals and street lights as necessary for the installation of new curbs or new curbs and sidewalks at locations where there are no existing curbs or curbs and sidewalks, or, where existing improvements do not meet current standards. Traffic signals must remain operational during all construction within signalized intersections.

The Developer is required to provide frontage improvements along existing and proposed roadways at the Developer's expense. Frontage improvements include, but are not limited to, sidewalk, curb and gutter, center median, 18 feet pavement width, additional pavement width beyond the 18-feet for intersection widening (including acceleration and deceleration lanes, bus turnouts, widening for dual left turns, etc.), drainage system, landscaping, soundwalls, street lighting, roadway signing and striping, and all utilities (including traffic signal interconnect if applicable). For minor residential, primary residential, collector and industrial streets, the Developer shall provide the full right-of-way improvement.

For development within the "infill" areas of the City, the level of improvements to public streets adjacent to the development site shall be determined on a project specific basis at the discretion of the City Engineer.

The Developer shall be responsible for all drainage facilities (bridges, pipes, culverts, and appurtenances) crossing new streets within or adjacent to the project.

The Developer shall be responsible for all necessary modifications within the public right-of-way and the project site to comply with state and federal standards for access for disabled, including but not limited to sidewalk ramps.

## Street Names and Signage

Street names shall be proposed by the Developer and shall be shown on the tentative map when submitted. These names shall be subject to approval by the City Council. No duplication of names already in use or previous proposed or sound alike names will be permitted. Street name signs shall be furnished and installed by the Developer. The requirements for location of signs do not apply to signalized intersections since signals will have their own street name signs. Street signs shall conform to Standard detail MS-02.

## Survey Monuments and Benchmarks

The consulting engineer or land surveyor shall place survey monuments at the following locations:

1. At the intersection of street centerlines.
2. At the beginning and end of curves on the street centerline.
3. At the center of all cul-de-sacs and elbow points.
4. At the subdivision boundary corners and at such other locations so as to enable any lot or portion of the improvements to be retraced or located, as directed by the City Engineer.

The above-described monuments shall be as follows:

All monuments shall not be less substantial than  $\frac{3}{4}$  inch diameter iron pipe of  $\frac{5}{8}$  inch diameter street reinforcing bar, 18 inches long with a brass tag or plastic cap bearing the registration number of the engineer or surveyor who set the monument and shall be subject to inspection and approval by the City Engineer. "Permanent" monuments shall be set in concrete, and shall conform to Standard Detail MS-03. Before street improvements are accepted all monuments disturbed by the improvements shall be reset.

In making the survey for a subdivision, the consulting engineer or surveyor shall set "permanent" monuments at all angle and curve points on the exterior boundaries of the subdivision, in all street intersections, at all angle points of street lines, and at all points of curvature, both simple and compound, of street lines. "Permanent" monuments at street intersections and at angle and curved points of street line shall be set on street centerlines, unless otherwise directed by the City Engineer, provided however that the "permanent" monuments need not be set at intervals of less than 400 feet.

There shall be one or more permanent benchmarks for each subdivision, of a type approved by the City Engineer and referred to ~~the City Datum~~, set at each street intersection in the curb return or other location approved by the City Engineer. The benchmark shall be a brass disc two inches  $+$ / $-$  in diameter, set in concrete.

## Installation

### A. Subgrade for Sidewalk and Curb Ramps, Curb and Gutter, Driveways and Asphalt Concrete Paving

Subgrade shall be processed to 95% relative compaction, minimum 6 inches plus, and shall be tested and certified by a geotechnical engineer, licensed in California. Written certification shall be provided to the City prior to the placement of concrete (and aggregate base or aggregate subbase for asphalt concrete). For meandering sidewalks, Class II aggregate base may be substituted for native subgrade at the Contractor's discretion and shall be processed to 95 % relative compaction.

Additionally, subgrade stability for curb, gutter and sidewalk and asphalt concrete pavement shall be load tested by proof rolling with a loaded, minimum 3,000 gallon water truck (or equipment of equivalent weight as approved by the City) in the presence of the City, the Geotechnical Engineer and the Contractor. The proof roll test shall be repeated following corrective measures. Prior to placement of aggregate base, deflection in the subgrade shall

**Commented [AH3]:** City Datum or NAVD 88 NGVD 29?

**Commented [DJ4R3]:** I believe everything should be on one datum (NAVD 88), however, The Datum of 2022 is a placeholder name for a new geodetic datum set to be produced by the U.S. National Geodetic Survey in 2024-2025 to improve the National Spatial Reference System (NSRS) by replacing the North American Datum of 1983 (NAD 83) and the North American Vertical Datum of 1988 (NAVD 88) with a new geometric reference frame and geopotential datum.

be eliminated. Placement of aggregate base shall not commence without the approval of the City.

Sidewalk subgrade exposed upon removal of existing sidewalk shall remain intact unless it is determined by the City's Construction Inspector to be unstable. In this event, it shall be processed per the preceding paragraphs.

Deflecting, unstable areas shall be corrected per the recommendation of the Geotechnical Engineer and upon the approval of the City's Construction Inspector prior to placement of aggregate base, or concrete curb, gutter and sidewalk.

## **B. Aggregate Base and Subbase**

Roadway aggregate base and subbase, lime/cement treated base and sidewalk, curb and gutter shall not be placed until the following items of construction within the City street right-of-way and Public Utility Easement (PUE) are completed:

1. Installation of underground sewer and water systems and testing or televising, and approval.
2. Completion of testing for the presence of bacteria and the water system tie-in shall not be requirements for the approval of commencement of surface improvement construction. However, the water main tie-in shall be completed prior to asphalt concrete paving. The Contractor shall schedule operations such that the curb, gutter and sidewalk pour shall not be conducted on the same day as the water tie-in.
3. Installation and mandrelling of the non-rigid underground storm drain pipe and approval of same by the City's Construction Inspector.
4. Installation of electric, natural gas, telephone, traffic signal (including interconnect) and cable TV, including mandrelling and testing of all conduits, installation of 4x4 markers a minimum of 2 feet high, painted red, buried at the crossing ends (if conduit ends do not extend up from finish grade). This includes all dry utility crossing and longitudinal trenches.
5. Backfill and compaction testing of all trenches related to the above and approval of same by the City's Construction Inspector.

All aggregate base and subbase (AB and ASB) shall be installed per provisions in the most recent edition of Caltrans Standard Specifications. AB and ASB shall be compacted to 95% relative compaction. An oil seal is not required on the AB surface. If required by the City's Construction Inspector, AB and ASB shall be tested for compaction and approved by geotechnical engineer, licensed in California. It shall be proof rolled if requested by the City's Construction Inspector. Written certification of compliance to these requirements shall be provided to the City's Construction Inspector.

Aggregate base shall be installed as a base for asphalt concrete paving where specified on the approved plans including over lime and fly ash or cement treatment is used to stabilize the ASB.

Where lone valley gutters are placed within the City pavement as in an alley, the aggregate base section for the gutter shall extend to the same depth as the aggregate base section for the adjacent asphalt concrete pavement.

Prior to paving, deflection in the compacted AB shall be eliminated. Paving shall not commence without the approval of the City's Construction Inspector.

Lime/fly ash or other stabilizers may be permitted for subbase stabilization as recommended by the geotechnical engineer and shall not be used as a substitute for structural section components. The City, following addition and processing of lime/fly ash or cement shall require mandrelling of all non-rigid and shallow rigid underground utilities at the discretion of the City's Construction Inspector. All utility systems shall be cleaned as appropriate. In the event a dig up and repair is required following lime/cement treatment of ASB; the entire excavation shall be backfilled with either 2-sack cement slurry, or dry native material compacted and conforming to these Standards. Subgrade stability for roadway and/or concrete curb, gutter & sidewalk shall be reload tested by proof rolling with a loaded 3,000 gallon water truck and approved by the City Construction Inspector prior to the placement of aggregate base.

### C. Concrete

All concrete curbs, curb & gutters, sidewalks, curb ramps, driveways, bus stop pads and turnouts shall be installed per provisions the Caltrans Standard Specifications, and the Standard Details including the following provisions:

1. All residential and commercial sidewalks shall be either 6" thick, or 4" thick with 4" of compacted aggregate base.
2. All commercial driveways, round a bout centers and bus turnouts shall be 8" thick with number 4 grade 60 rebar on 18-inch centers each way. Rebar shall be set on 3 inch concrete dobies/rebar supports at three foot maximum spacing each way. The dobies shall include wire ties. Base for commercial driveways may be processed native subgrade or  $\frac{3}{4}$  inch aggregate base compacted to 95% relative compaction.
3. Concrete shall not be placed or finished in the rain. It shall be the Contractor's responsibility to schedule construction operations accordingly. All gutters shall be flow tested with water during the pour to assure proper drainage. Following concrete finishing, no water shall pond in the gutter pan. All concrete surfaces shall be completed with a medium broom finish unless otherwise specified. A heavy broom finish is not allowed. A concrete finish not conforming to the Caltrans Standard Specifications with regard to blemishes and alignment tolerances shall be cause for rejection of the work. No stamps advertising construction companies or other private concerns shall be placed in the concrete. A detectable warning (truncated dome) panel shall be placed at the back of curb line, immediately behind the curb and gutter, centered in the opening to the street (regardless of slope) at every curb ramp (And shall not be sized as shown on the Case C ramp on Caltrans Revised Standard Plan RSP A88A). At minimum, the panel shall consist of a one piece, 4 foot by 3 foot panel, but shall be sized according to the path of travel dimension. The long-dimensions of the panel shall be along the face of curb. The top, flat, dome panel surface (excluding the domes) shall be placed flush with the adjacent top of concrete surface. Any runoff water standing behind the curb, on the panel, or concrete voids under the panel, shall be cause for replacement of the panel.

#### Tool Joints

Tool joints and score marks shall be placed through the sidewalk, curb and gutter section at the following intervals for the sidewalk widths indicated. All tool joints shall be a minimum 2 inches. There shall be no expansion joint material used in the City right-of-way.

The purpose of the tool joint is to separate the aggregate and control cracking. During concrete finishing, after placement of a minimum 2 inch deep tool joint, the joint shall be redressed/finished with a 3/8 inch joint tool.

All tool joints shall conform to Caltrans Standard Specifications for Joints. The use of sawcutting in lieu of deep tool joints is not acceptable.

#### **Monolithic Sidewalk, Curb & Gutter**

All adjoining sidewalk, curb and gutter shall be poured monolithically.

#### **Curb and Gutter Installation in Existing Street**

In an existing street, a minimum width of 24 inches of existing asphalt concrete paving shall be removed outside the proposed gutter lip and the lip poured against a form board. The resulting patch between the gutter lip and the existing pavement shall be six inches thick minimum, or the thickness of the existing pavement, whichever is greater. The AC patch shall be placed within two weeks of the conclusion of the concrete pour.

The minimum waiting period for pavement patching is three days from the date of placement or, the length of time needed for the concrete to reach 80% of its required ultimate strength, whichever is more. The gutter may be placed against the existing pavement if the City's Construction Inspector determines the pavement edge is flawless. In this case, the gutter lip shall not be edged and shall be poured  $\frac{1}{8}$  inch below the existing pavement.

#### **Curb Ramps, General**

All curb ramps shall conform to the most recent edition of Caltrans Standard Specifications.

#### **Curb, Gutter and Sidewalk Patching**

A professional concrete mason shall apply the patch. The patch shall be flush with the existing concrete and a similar finish shall be maintained. The City's Construction Inspector shall determine if the damage to the concrete warrants patching. Generally, any conspicuous damage shall be patched.

#### **Dowelling New Concrete to Existing**

When pouring combinations of sidewalk or curb and gutter contiguous to existing, the existing concrete vertical face shall be doweled three feet on center with 16 inch long, grade 60, #4 rebar penetrating four inches into the existing curb, four inches below top of curb. The dowel hole shall be 5/8-inch diameter at a slight angle horizontally. The penetrating portion of the dowel and the entire cleaned vertical surface of the adjoining existing concrete shall be 95% coated with two-part epoxy. All abutting sidewalk shall be doweled mid-section with two dowels for four through six-foot wide sidewalk and three dowels for wider sidewalk. Abutting curb and gutter ends shall be doweled twice, 18 inches apart, centered on the curb and gutter section. See Section 71-5 (Materials) for epoxy.

Where the street side of the meandering sidewalk meets the back of Curb at less than a 90 degree angle, the return to the back of curb shall be a minimum 18 inch radius or 18 inch space shall be provided between the front face of sidewalk and the back of curb.

Replaced sections shall be removed back to score marks, expansion joints or deep tool joints; or at the discretion of the City's Construction Inspector.

If the existing edge is damaged during removal, the concrete shall be sawcut again at the City's Construction Inspector's discretion.

#### **Sidewalk, Curb and Gutter Replacement**

Where sidewalk and/or curb and gutter is being replaced, the maximum length of sidewalk that may be replaced non-monolithically (without the attached curb and gutter) is 20 feet. If more than 20 feet is damaged continuous, the total sidewalk, curb and gutter section shall be removed and replaced monolithically. Where sidewalk, curb and gutter or curb ramps and driveways with sidewalk, curb and gutter as portions thereof are replaced, all replacement shall conform to the latest Construction Standards.

#### **Damaged Gutter Lip**

Gutter lip damaged during the grading and rockering operation shall be patched or replaced.

Any spall extending more than one inch into the gutter pan from the vertical face of the gutter lip shall be patched at a minimum.

#### **Concrete and Asphalt Concrete Saw Cutting**

Residual from sawcutting shall be removed by vacuum method and disposed of conforming to local environmental and State Stormwater Pollution Prevention Plan requirements. The down stream drain inlet shall be protected. In no case shall the residual be allowed to enter the storm drain system. The above-specified cleanup shall be the responsibility of the contractor.

### **D. Asphalt Concrete Paving**

All asphalt concrete (AC) paving shall be Hot Mix Asphalt (HMA) unless approved by the City Engineer and Public Works Director and installed per the most current adopted provisions in the most recent Caltrans Standard Specifications, except as amended by these Standards.

No paving shall occur until all underground work is completed, tested and subgrade and/or aggregate base and/or lime and fly ash or cement treated base have been accepted by the City.

#### **Mix Design**

The Contractor shall provide the asphalt concrete mix design to the Director of Development Services at least ten (10) working days prior to the start of the work on the project for review and approval. The mix design must be approved prior to commencement of work.

The asphalt concrete mix design shall indicate the following:

1. Complete aggregate grading with the percentage of aggregate passing each sieve size.
2. Percent air voids for each percentage of asphalt binder used in the mix design determination.

3. Stability – Per MS-2 Asphalt Mix Design Methods per Sections 3 and 8. Mix design requires Hamburg Wheel (AASHTO T 324) and Moisture Susceptibility (AASHTO T 283) once per project or every 10K tons.
4. Maximum theoretical density for each percentage of asphalt binder used in the mix design determination.
5. Compacted unit weight for each percentage of asphalt binder used in the mix design determination.
6. Percent asphalt binder recommended. (Optimum bitumen content, OBC).

The amount of asphalt binder (OBC) to be mixed with the aggregate for asphalt concrete will be recommended by the material supplier and approved by the City Inspector based on data from California Test Method CTM 367 provided by the Contractor. CTM 309 shall be used for determination of the theoretical maximum specific gravity at each asphalt binder content. However, the ratio for asphalt binder to the dry weight of aggregate shall be limited to 4 to 7 percent.

The actual asphalt cement content may vary up to 0.5% plus/minus from the target optimum bitumen content (OBC). For Job Mix Formula, -0.3 to +0.5 %.

#### **Spreading and Compactions**

Equipment shall conform to the most recent edition of Caltrans Standard specifications.

All spreading and compacting construction activities shall conform to the most recent edition of the Caltrans Standard Specifications.

#### **Miscellaneous**

The Contractor shall schedule paving operations such that at the end of each work shift, each layer of asphalt concrete is placed on all contiguous lanes and shoulders of a traveled way to be opened to public traffic.

At the end of each work shift, the distance between the ends of the layers of asphalt concrete on adjacent lanes shall not be greater than 10 feet nor less than 5 feet. A drop-off of more than 0.15-foot will not be allowed at any time between adjacent lanes open to public traffic.

Additional asphalt concrete shall be placed along the transverse edge at the end of each lane and along the exposed longitudinal edges between adjacent lanes, hand raked, and compacted to form temporary conforms. Kraft paper, or other approved bond breaker, may be placed under the conform tapers to facilitate the removal of the taper when paving operations resume.

Additional asphalt concrete surfacing material shall be placed along the edge of the surfacing at private drives, hand raked, if necessary, and compacted to form smooth tapered conforms.

Longitudinal joints in successive pavement lifts shall be offset from lift to lift a minimum of one foot. The surface pass seam shall be located on the lane line. Where extruded concrete curb is removed for pavement widening, Contractor shall grind 1-1/2" of pavement between the nearest lane line and the existing curb and gutter line (including bike lanes). Following placement of the asphalt concrete base lift within the widening section, and 1-1/2" below

the new gutter lip, Contractor to replace Petromat fabric or approved equal in grounded area, place asphalt concrete overlay, and restripe and/or replace any delineators removed during the grind.

Prior to permanent patching in a pavement removal area, fresh cut- back (temporary pavement) in a minimum thickness of two (2) inches shall be placed as a driving surface.

Whether the surface material is fog sealed or cutback or slurry, the Contractor shall be tenacious in maintaining the surface in a condition and to a grade comparable to the permanent patch. No other materials are allowed as temporary pavement. Placement of steel plates over fresh slurry may be employed per Section 21-2, I. 5. of these Standards.

The temporary surface shall be flush with the surrounding pavement and shall accommodate a smooth drive across it.

Sand and dirt shall not be allowed to accumulate on the slurry surface and adjacent street. It shall be swept daily if necessary.

Utility boxes in asphalt concrete, off-street paths shall include a 12- inch x 12 inch, concrete collar "minor concrete" conforming to the most recent edition of Caltrans Standard Specifications. The top of the collar shall be three inches below the surrounding pavement and the area shall be patch-paved with asphalt concrete as with manholes, water valves and monuments in the street way.

If a bucket or tank or diesel fuel is carried on the paver for the purpose of cleaning rakes and shovels, a container of grease sweep or equivalent absorbent material shall also be carried on the paver. All diesel spills shall be promptly cleaned up.

#### **Existing Pavement**

1. Cut lines made on existing pavement, both longitudinally and transversely, for the placing of new structural section shall be straight and smooth.
2. Edge grinding (Cold Planning) shall be required where existing asphalt is to be overlayed. The edge grind shall match the depth of the asphalt concrete overlay along the length of the gutter lip and abutting pavement where the asphalt concrete pavement is proposed to conform to the existing pavement.
3. Existing pavements to be overlayed with asphalt concrete shall include the installation of pavement reinforcing fabric in accordance with Section 88, Materials of the Caltrans Standard Specifications at the discretion of the City's Construction Inspector.
4. Existing AC surfaces to remain shall be cut in a straight line parallel to the street centerline, and the exposed edge shall be tracked with SS1H emulsion or equivalent prior to paving. For moratorium defined streets, CRAFCO Pavement Adhesive, "Qwik Seal" or approved equal shall be used per manufacturer recommendations. The exposed base material shall be graded and re-compacted per these Construction Standards prior to paving. Graded and re-compacted areas shall be approved by the City's Construction Inspector prior to paving.
5. Where an excavation in the public right of way is backfilled with two-sack cement slurry per these Construction Standards, the slurry may be brought to the top of the trench until permanent patching. Where rock-saw utility trenching is necessary

in the bottom lift of asphalt concrete and prior to placement of top lift of asphalt concrete, the rock saw trench shall be covered with Glasgrid product (8512, with 100X200 KN tensile strength) or approved equal, at the manufacturers recommendations prior to the placement of top lift of asphalt.

- If the width of existing pavement between the gutter lip and excavated patch/pave area is three (3) feet or less, all existing pavement between the patch/pave area and the gutter lip shall be removed or milled 0.15 feet in depth, and patched conforming to the adjacent patch/pave area requirements.

## Materials

### A. Aggregate Base and Subbase

All aggregate base and subbase (AB and ASB) materials shall be Class 2 as specified on the approved improvement plans and shall conform the most recent edition of the Caltrans Standard Specifications.

Recycled asphalt concrete material may be used as AB or ASB provided the Contractor supplies the City written documentation and certification that the material meets the State's Class 2 specifications prior to placement.

### B. Concrete

All Concrete curbs, gutters, driveways, island paving, sidewalks, curb ramps, driveways, island and colored concrete, and shall be constructed of minor concrete conforming to the most recent edition of Caltrans Standard Specifications. The cementitious material content of concrete must be a least 463 lb./cu yd. for constructing minor concrete as listed above. The aggregate size may range from 3/8" to 1 inch. However, if 3/8" maximum size aggregate is used, cementitious material content must be a least 505 lb./cu yd,

All other minor concrete for extruded or slip-form curb construction, retaining wall footings, utility box collars, rock wheel backfill, and miscellaneous footings, shall be constructed of minor concrete conforming to the provisions in the most recent Caltrans Standard Specifications, material content must be a least 505 lb./cu yd.

### C. Asphalt Concrete

Shall comply with the most current adopted edition of Caltrans Standard Specifications and as modified herewith. The requirements provided within these provisions shall supersede State Specifications where conflicts or other disparities exist.

Asphalt binder shall be performance grade 64-10 paving asphalt conforming to the most recent edition of the Caltrans Standard Specifications.

Asphalt concrete for alley's residential and collector roadways shall be Type A, ½-inch Maximum Medium Gradation, conforming to the requirements of most recent edition of Caltrans Standard Specifications.

Reclaimed Asphalt Pavement (RAP) up to 15% of aggregate blend may be substituted as part of the virgin aggregate for hot mixed asphalt and shall meet the State's quality specifications. RAP not permitted in OGFC or RHMA-G.

Asphalt concrete shall be hot plant mixed and shall be furnished from the plant at a temperature not to exceed 325 degrees F.

**D. Lime/Fly Ash or Cement treated Subbase**

On a case-by-case basis, lime/fly ash or cement treated subbase may be an acceptable substitute for placement of compacted aggregate base material. Prior to plan approval, the Developer shall submit to the City Engineer for review and approval, a proposal for lime/fly ash or cement treatment sections and compaction procedures, accompanied by recommendations from a California licensed, geotechnical engineer. In no case shall asphalt concrete be placed directly on lime/fly or cement treated bases.

**E. Truncated Domes**

Truncated dome panels shall be of vitrified polymer composite construction, embedded type, or (surface applied for retrofit applications) manufactured by Armor Tile Tactile Systems, Buffalo, New York, ADA Solutions, N. Billerica, MA, or approved equal. The dimensions and interval of the truncated domes within the panel shall conform to Caltrans Standard Plan RNSP A88 and Division of the State Architect Accessibility Reference Manual, Figure No. 31-23A. The orientation of the dome pattern for all panels shall be parallel with the panel edges.

## Section 2 - **SIGNAGE AND STRIPING**

### **General**

This section governs the design, installation, modification, and maintenance of all traffic signage, pavement striping, and pavement markings within the public right-of-way and on private property where such improvements are required as a condition of development approval.

All signage and striping shall be designed and installed to provide clear, consistent, and enforceable traffic control that promotes public safety for motorists, bicyclists, and pedestrians.

### **Governing Standards**

All signage and striping shall conform to the following, in order of precedence:

1. Approved improvement plans and traffic control plans
2. City of Gridley Design and Construction Standards and Standard Details
3. Latest edition of the California Manual on Uniform Traffic Control Devices (CA MUTCD)
4. Caltrans Standard Specifications and Standard Plans

Where conflicts occur, the more restrictive requirement shall apply, as determined by the City Engineer.

### **Permanent Signage**

Permanent regulatory, warning, and guide signs shall be installed only at locations approved by the City Engineer.

#### **Classification of Permanent Traffic Signs**

Permanent traffic signs shall be classified into the following categories:

1. Regulatory Signs
2. Warning Signs
3. Guide Signs

Each category has specific requirements for shape, color, legend, and application.

#### **Regulatory Signs**

Regulatory signs inform road users of traffic laws, regulations, and requirements that must be obeyed. These signs are enforceable by law.

#### **Shape and Color Requirements**

Regulatory signs shall conform to the following MUTCD-required shapes and colors:

- **STOP:** Octagonal shape, red background, white legend and border
- **YIELD:** Downward-pointing triangular shape, red and white background, red legend
- **SPEED LIMIT:** Rectangular shape, white background, black legend and border
- **DO NOT ENTER:** Rectangular shape, red background, white legend
- **ONE WAY:** Rectangular shape, black background, white legend
- **NO PARKING / NO STOPPING / NO STANDING:** Rectangular shape, white background, red legend and border

No deviations from these shapes or colors shall be permitted unless approved in writing by the City Engineer.

#### **Legend and Design**

Regulatory sign legends shall use standard MUTCD-approved wording, symbols, and abbreviations. Custom legends or non-standard wording are prohibited.

Minimum letter sizes shall comply with CA MUTCD requirements based on roadway classification and posted speed.

#### **Warning Signs**

Warning signs alert road users to potentially hazardous or unexpected roadway conditions that may not be readily apparent.

#### **Shape and Color Requirements**

Warning signs shall conform to the following MUTCD-required shapes and colors:

- **General Warning Signs:** Diamond shape, yellow background, black legend and border
- **Pedestrian and Bicycle Warning Signs:** Diamond or rectangular shape, fluorescent yellow-green background, black legend
- **School Zone Signs:** Pentagon shape or rectangular supplemental signs, fluorescent yellow-green background, black legend
- **Advisory Speed Signs:** Rectangular shape, yellow background, black legend

Warning signs shall be installed only where engineering judgment indicates a need. Excessive or unnecessary warning signage is discouraged, as it reduces overall effectiveness.

Advisory speed signs shall be supported by roadway design speed, field conditions, or an engineering study, as approved by the City Engineer.

#### **Guide Signs**

Guide signs provide route, destination, and location information to assist road users.

## **Shape and Color Requirements**

Guide signs shall conform to the following MUTCD-required shapes and colors:

- **Street Name Signs:** Rectangular shape, green background, white legend
- **Route Markers:** Shapes and colors as specified by CA MUTCD for state, county, or local routes
- **Destination and Wayfinding Signs:** Rectangular shape, green or blue background, white legend

Letter height, font, spacing, and contrast shall comply with CA MUTCD requirements.

## **Retroreflectivity**

All permanent traffic signs shall be retroreflective and shall maintain minimum nighttime visibility in accordance with CA MUTCD requirements.

Signs that no longer meet minimum retroreflectivity standards due to age, damage, or fading shall be replaced.

## **Mounting Height and Lateral Offset**

Permanent traffic signs shall be installed at mounting heights and lateral offsets consistent with CA MUTCD requirements.

- In areas with curb and sidewalk, the bottom of the sign shall be a minimum of seven (7) feet above the sidewalk surface.
- In areas without curb or sidewalk, the bottom of the sign shall be a minimum of five (5) feet above the near edge of traveled way.

Exact placement shall be determined based on visibility, sight distance, and field conditions, subject to approval by the City Engineer.

## **Location and Approval**

Permanent traffic sign locations shall be shown on approved improvement plans or approved in writing by the City Engineer.

Signs shall not obstruct sight distance, pedestrian access, or accessibility features, and shall not conflict with other traffic control devices.

## **Installation Timing**

Permanent traffic signs shall be installed after roadway geometry, curb, gutter, and sidewalk construction are complete and prior to final acceptance, unless otherwise approved by the City Engineer.

Temporary signage shall be used during construction until permanent signs are installed.

## **Ownership and Maintenance**

Upon acceptance by the City, permanent traffic signage shall become the property of the City of Gridley and shall be maintained by the City unless otherwise specified.

## **Prohibited Signs**

The following are prohibited within the public right-of-way unless otherwise approved by the City Engineer:

- Non-MUTCD compliant signs
- Decorative or novelty signs intended to regulate traffic
- Private signs attempting to control public traffic
- Signs with non-standard colors, shapes, or legends

Street name signs shall be furnished and installed by the Developer and shall be subject to review and approval by the City prior to installation. Duplicate, confusing, or nonstandard sign legends shall not be permitted.

## **Temporary and Construction Signage**

Temporary signage shall be provided to warn roadway users of construction activities, detours, lane closures, and changed roadway conditions.

Temporary signs shall be retroreflective, properly mounted, and maintained in a clean and legible condition. Signs shall be removed immediately when no longer applicable.

## **Removal, Relocation, and Replacement**

Existing signage impacted by construction shall be protected, temporarily relocated, or replaced as required by the City Engineer. Any sign damaged, removed, or rendered illegible as a result of construction shall be replaced at the Contractor's expense prior to project acceptance.

## **Pavement Striping and Markings**

All pavement striping and markings shall conform to CA MUTCD requirements, Caltrans specifications, and City Standard Details.

Striping materials may include traffic paint, thermoplastic, or other City-approved materials. Reflective glass beads or equivalent shall be applied to all markings to provide nighttime visibility.

## **Temporary Striping**

Temporary striping shall be installed whenever permanent striping is removed or obscured during construction. Temporary striping shall provide clear lane guidance and shall remain in place until permanent striping is installed.

### **Permanent Striping**

Permanent striping shall be installed only after final paving operations are complete and approved by the City.

### **Removal of Existing Striping**

Conflicting or obsolete striping and pavement markings shall be removed by grinding or other approved methods that do not damage the pavement surface.

## Section 3 - **LIGHTING AND TRAFFIC**

### **General**

This section governs the design, installation, modification, and acceptance of street lighting, traffic signal electrical systems, and associated appurtenances within the public right-of-way.

All traffic systems and electrical improvements shall be submitted to the City Engineer for review and approval prior to construction.

### **Governing Standards**

Lighting and electrical systems shall conform to the following, as applicable:

1. City of Gridley Design and Construction Standards and Standard Details
2. Approved improvement plans
3. Latest edition of the California Electrical Code
4. Caltrans Standard Specifications and Standard Plans
5. CA MUTCD (for signal-related installations)
6. Applicable utility provider requirements

Where conflicts occur, the more restrictive requirement shall apply as determined by the City Engineer.

### **Street Lighting Requirements**

Street lighting shall be provided along public streets as required by the City Engineer based on street classification, safety considerations, and consistency with existing City lighting systems.

Lighting design shall address illumination levels, uniformity ratios, glare control, energy efficiency, and maintenance access. Pole types, luminaires, mounting heights, and spacing shall be consistent with City standards unless otherwise approved.

### **Electrical Systems**

All electrical work shall be performed by licensed electricians in accordance with applicable codes.

Electrical improvements may include, but are not limited to:

- Underground conduits
- Pull boxes and vaults
- Foundations
- Conductors and wiring
- Grounding systems

All electrical systems shall be inspected and tested prior to acceptance by the City.

## **Traffic Signal Systems**

Traffic signal installations, modifications, or relocations shall require approval by the City Engineer.

Signals shall remain operational during construction unless a planned outage is approved. Temporary signal operation or alternate traffic control may be required to maintain traffic flow and safety.

## **Acceptance**

Lighting and traffic electrical systems shall not be energized or placed into permanent operation until all inspections, testing, and documentation have been completed and approved by the City.

## Section 4 - TRAFFIC IMPACT STUDIES

### Purpose

Traffic Impact Studies (TIS) evaluate the effects of proposed development on the City's transportation system and identify mitigation measures necessary to maintain safe and efficient operations.

### Applicability

A Traffic Impact Study shall be required for development projects that may generate traffic volumes, patterns, or operational impacts exceeding thresholds established by the City Engineer.

The City Engineer may waive or modify study requirements for projects with minimal traffic impacts or require supplemental analysis for projects with unique characteristics.

### Study Preparation

Traffic Impact Studies shall be prepared by a licensed traffic engineer experienced in traffic analysis and transportation planning.

### Study Content

Traffic Impact Studies shall include, at a minimum:

- Description of the proposed development
- Existing traffic conditions
- Project-generated traffic
- Future traffic conditions with and without the project
- Intersection and roadway level of service analysis
- Multimodal impacts including pedestrian, bicycle, and transit considerations
- Safety analysis and collision history where applicable
- Identification of required mitigation measures

### Mitigation Measures

Mitigation measures identified in an approved Traffic Impact Study shall be implemented by the Developer as conditions of project approval.

Mitigation may include, but is not limited to:

- Intersection improvements
- Traffic signal modifications
- Additional traffic lanes or turn pockets
- Access modifications

- Transportation demand management measures
- Fair-share contributions toward off-site improvements

### **Updates and Revisions**

Traffic Impact Studies may be required to be updated if project scope, phasing, or surrounding conditions change prior to construction or occupancy.

### **Acceptance**

Approval of a Traffic Impact Study does not relieve the Developer of responsibility to implement all required mitigation measures or comply with applicable City standards.

## Purpose and Definitions

### 1.1 Purpose

The purpose of these Design and Construction Standards is to provide direction in the application of public and private improvements and to establish minimum standards for the design, construction, inspection, and acceptance of improvements within the City of Gridley. These standards apply to improvements which are to be dedicated to the public and accepted by the City for ownership, operation, or maintenance, as well as certain private improvements constructed within existing or future public rights of way or easements.

These standards are intended to promote coordinated development, protect public health and safety, and ensure that improvements are designed and constructed in a manner consistent with the physical conditions, infrastructure needs, and long-term maintenance responsibilities of the City of Gridley.

The following physical characteristics of the City of Gridley require special design and construction consideration:

1. Flat grades
2. High groundwater table year round
3. Unstable soils below the groundwater table
4. Storm Drain outlet restrictions from agricultural drainage channels

The City of Gridley's Public Works department is particularly concerned about:

1. Accurate establishment of grades
2. Watertightness of pipelines and structures
3. Adequate construction and safety procedures regarding shoring, bracing and dewatering of all excavations
4. Building pad elevations established above potential high water elevations, with adequate lot grading to the back of sidewalk
5. Storm Drain detention facilities designed to limit peak flows
6. Drinking water system back flow prevention and cross connection controls.

A.

### 1.2 Definitions

**C. Applicant** – Shall mean the Developer or the Engineer of record acting on behalf of the Developer. Engineer of record

**D. Approved Plans** – Shall mean all plans prepared for construction of improvements, reviewed, approved and signed by the necessary departments within the City of Gridley.

**E. City** – Shall mean the City of Gridley and its applicable departments.

**City Engineer** – Shall mean the City Engineer, Public Works Director, or their authorized designee acting on behalf of the City of Gridley.

**Engineer of record** – Shall mean any person or persons, firm, partnerships, or corporation legally authorized to practice civil, mechanical, geotechnical, electrical engineering or other

engineering disciplines in the State of California who prepares or submits improvement plans and specification to the City of Gridley for approval.

**Contractor** – Shall mean any person, persons, firm, partnerships, or corporation or combination thereof, licensed to perform the type of work involved, who has entered into a contract with any person, corporation or company, their legal representatives for the construction of any improvements, or portion of improvements with the City of Gridley.

F. **Developer** – Shall mean any persons, firm partnership, corporation or combination thereof, financially responsible for the work involved.

G. **Development** – Shall mean the act or process of any construction on properties as well as subdivision improvement.

H. **Fire Department** – Shall mean the Fire Department of the City of Gridley.

I. **Fire Flow** – Shall mean the required flow rate of a water supply, measured at 20 pounds per square inch residual pressure that is available for firefighting.

J. **Geotechnical Engineer** – Shall mean a professional engineer, licensed by the State of California to practice soils engineering.

K. **Improvements** – Shall mean streets, alleys, sidewalks, curbs, gutters, driveways, water mains, sanitary sewer facilities, storm drainage facilities, detention basins, canals, street lighting, public utilities, landscaping, irrigation, parks, fences, walls, and other facilities to be constructed or installed by the Developer within an existing or future public right of way or easement, or any improvement subject to City plan review or inspection.

M. **Laboratory** – Shall mean any testing agency or testing firm which has been approved by the Department of Public Works.

N. **California MUTCD** – Shall mean the “California Manual on Uniform Traffic Control Devices” as adopted by the California Department of Transportation, latest edition.

P. **Relative Compaction** – Shall mean the degree of compaction of soil expressed as a percentage of the maximum dry density determined in accordance with ASTM D1557, latest edition, unless otherwise approved by the City Engineer.

Q. **Soils Report** – Shall mean a report as prepared by any person or persons, firm, partnership, or corporation legally licensed to prepare “Soils Reports” in the State of California.

R. **Standard Details** – Shall mean the standard details as set forth in the Standard Specifications and Details approved by the City Engineer and as amended.

**Standard Specifications** – Also referred to in this document as Standards.

### 1.3 Design and Construction Practices

Any items or situations not included in these standard specifications shall be designed and constructed in accordance with accepted engineering practice, the State of California “Highway Design Manual”, the State of California Standard Plans, the State of California Standard Specifications, the “California Manual on Uniform Traffic Control Devices”, the State of California Department of Transportation Standard Specifications and Plans, and as specified by the City Engineer.

Any questions regarding the Standards shall be directed to Public Works, the City Engineer, or the Public Works Director.

## General Requirements

### 2.1 Plans by an Appropriate Engineer

All plans and specifications for improvements, private and public, which are to be accepted for maintenance by the City, and plans and specifications for private on-site drainage, sewer, water, and grading ~~Section 2~~ shall be prepared by an engineer licensed in the State of California, of the appropriate branch of engineering covering the work submitted.

Plans shall include the items outlined in Section 3 – Plan Sheet Requirements.

### 2.2 Accepted Plans

Complete plans and specifications for all proposed streets, street names, bikeways, grading, drainage facilities, sewerage, water distribution systems, industrial developments, commercial developments, and subdivisions, including any necessary dedications, easements, and right of entry, shall be electronically submitted to the City for approval. The approval shall be substantiated by the signature of the required City representatives and issuance of a permit and to the beginning of construction of any such improvements. The City Engineer shall order any contractor to cease work on any project if said contractor does not have properly approved plans in possession.

### 2.3 Work in City Right of Way and Easements

No work shall be done within the City right of way and easements without approved plans and/or encroachment permits issued by the City. All necessary bonds and insurances shall be approved prior to the approval of the plans or issuance of an encroachment permit. Any construction that impacts traffic shall require a Construction Area Traffic Control Device Plan per the most current version of the (CAMUTCD) developed by a licensed traffic control engineer and approved by the City Engineer.

### 2.4 Submission of Improvement Plans

The following are the procedures and requirements when submitting Improvement Plans to the City of Gridley for Review. Incomplete submittals will not be accepted.

A. Improvement plans will be accepted only after the following conditions are met:

#### Development Projects

B. The projects which have been approved by the City, and are not proceeding under appeal or normal process to the City Council, may be submitted after the City approves the project and the Conditions of Approval are available from the Planning Division.

#### Subdivision

Rough Grading or improvements plans including parcel or subdivision maps may be submitted upon approval of the tentative map by the City and after the Conditions of Approval are available. The submittal package shall be electronically submitted as a whole directly to the City, at: [planningdept@gridley.ca.us](mailto:planningdept@gridley.ca.us).

### 2.5 Submission of Site Development, Grading, and Improvement Plans

The following are the City's requirements for application of a grading permit, and site development application. Plans shall be submitted to the City Engineer at the time the application is made for a construction permit. Bring Application packet to the Public Works Department during normal business hours on a USB drive with files and a completed application summary form including the following checklist.

Each Submittal shall include the following:

- One (1) copy of the Soils report.
- An itemized Engineer's cost estimate for all improvements to be constructed within public right of ways or easements, or any other improvements for which the City provides plan check and inspection services. All cost estimates shall include a ten (10) percent contingency. The cost estimate shall also include all public landscaping improvements.
- Payment of plan check and inspection fee deposit shall be submitted with the submission of plans. Fees are based on the Cities most current master fee schedule.
- One (1) copy of the drainage report indicating the method of calculation, the Stormwater Quality Design and Maintenance Plan, site water shed map, and the 10- and 100-year storm drainage calculations based on Butte County's Storm Drain Program and these specifications.
- An electronic copy of the Clerk's notice of approval for the Use permit and list of the Conditions of approval.
- An electronic copy of the approved tentative map and or site plan.
- For projects with a total disturbed area of less than one (1) acre; submit an erosion and sedimentation control plan in accordance with these specifications and details.
- For projects with a total disturbed area equal to or greater than one (1) acre; submit the State WDID associated with the project's Storm Water Pollution Prevention Plan (SWPPP). Ensure the WDID status is active and accessible within the State Water Resources Control Board's SMARTS system. A Copy of the SWPPP or WQCP shall be provided to the City.
- An electronic AutoCAD file of the project improvements. The initial submittal of the AutoCAD file will occur during the 2<sup>nd</sup> Plan check submittal. The file will be reviewed for content and format. Each subsequent submittal shall include and updated AutoCAD file for review. The final plan submittal of the AutoCAD file will occur after the final plan check, prior to the City signing off the approved plans. Failure to submit the AutoCAD file may delay final plan approval.

For tenant improvement projects, plans shall be routed through the City. Any improvements within right of way, easements, or any construction that would require temporary placement of equipment or material within the public right of way or easements shall require the Developer or the Contractor to obtain an encroachment permit from the City.

## **2.6 Submission of Final and Parcel Maps**

Final and parcel maps may be submitted for review upon the approval of the tentative map by the City. The following are the requirements:

- An electronic copy of the final or parcel map

- Payment of map checking fees
- Boundary, Centerline, and parcel survey closure calculations that include error of closure
- Preliminary Title Report dated within six months.
- One (1) AutoCAD file of the parcel or final map submitted.
- Any additional information/documentation as required.

## 2.7 Resubmittal Requirements

All resubmittals shall be electronically delivered to the City. The subject line of the email containing the resubmittal shall read, "City of Gridley –[Resubmittal #] [Project Name.]" All resubmittals shall include the following:

### Response to Comment Matrix

A. Response to comments matrix; all comments shall be populated into an excel spreadsheet and each comment shall be assigned a numbered. All comments shall be addressed within the excel sheet along with acknowledgement of the correction, or if a comment is not specifically addressed on the plans, a written explanation shall be provided stating why the comment was not addressed.

### Plans and other Documentation

B. An electronic copy of the latest plan submittal in .pdf format. One (1) AutoCAD file of the project improvements, and any additional documentation or materials as requested by the Plan checker.

**Any additional changes or revisions made to the plans other than those required by the City shall require the Applicant to bring those revisions or alterations to the attention of the City. Failure to do so may result in delays. Any additional review past the second plan check, or due to incomplete submittals, changes, and revisions will incur additional department review fees.**

## 2.8 Plan Acceptance and Expiration

Acceptance for construction will be given to the plan set after all necessary changes, corrections, or additions have been made as required by the City, the Owner/Developer has paid the remainder of the total plan check and inspection fees and posted all required bonds and insurances, and a permit has been issued.

The Engineer of record shall deliver to the City a minimum of three (3) sets of 24x36 prints from the accepted plan file for permit issuance prior to scheduling a pre-construction meeting.

**No plans will be considered approved, nor will construction be authorized until the plan set has received the appropriate permit.**

Permits issued become null and void if the construction of work authorized by the permit is not commenced within six (6) months from the date of such permit, or if the construction of work authorized is suspended or abandoned for a period of six (6) months at any time after the work is commenced. At such time, the plans shall be subject to review by the City to determine conformance with current City standards.

Plan reviews that remain inactive for six (6) months may be deemed expired by the City. The project may, at the discretion of the City Engineer be granted a six (6) month extension or deemed expired. A maximum of one (1) extension may be granted.

## **2.9 Improvement Plan Revisions and Submittals During Construction**

Should changes occur during construction; such changes shall be subject to the approval of the City. To receive approval the engineer of record shall provide an electronic copy of the proposed changes with clouded notation or denoted by delta revision symbols. Following review and approval of proposed change, the proposed and stamped changes shall be distributed to the Owner and Contractor.

When construction is completed within the Right of Way for utilities and or streets that the City will be responsible for ownership and maintenance, the design or engineer of record shall forward all approved submittals to the City Engineer to keep for record. If the City Engineer determines that the Engineer of Record approved a submittal for a material that is not acceptable according to the City standards, the City Engineer holds the right to refuse the submittal. These submittals shall be sent over to the City Engineer in a timely manner, to prevent the installation of inappropriate materials. The City Engineer reserves the right to review said submittals for 7 working days..

## **2.10 Record (As-Built) Plans**

The Contractor/Developer shall keep an accurate record of all approved deviations from the plans and shall provide a .pdf electronic file, AutoCAD electronic file, full size, and 11x17 bond copies of the as-built plans prior to final acceptance of the completed improvements. Each sheet of the plans shall be marked "As-Built" or "Record Drawing."

## **2.11 Inspections**

Requests for inspections shall be given a minimum 48 hours in advance. Any improvement constructed without inspection as provided above or constructed contrary to the order or instruction of the City Engineer will be deemed as not complying with the City standards and specifications.

Upon completion of any improvements and prior to requesting final inspection, the area shall be thoroughly cleaned of all rubbish, excess material and equipment and all portions of the work shall be left in a neat and orderly condition satisfactory by the City Engineer.

The Contractor will be notified in writing as to any particular defects or deficiencies to be remedied. The Contractor shall proceed to correct all defects of deficiencies as soon as possible, and a second inspection shall be made for final acceptance.

## **2.12 Submittal of Lot Line Adjustments**

The following shall be submitted to the City prior to recordation of a lot line adjustment:

- An electronic copy of the property boundary description with an exhibit map. These sheets must have at least  $\frac{1}{2}$ " inch of margin along all sides to meet conditions of the County Recorder's Office.
- One (1) AutoCAD file of the property boundary description.

- An electronic copy of the boundary survey closure calculations for the resulting lots. These items shall be stamped and signed by a California Licensed Land Surveyor or Registered Civil Engineer authorized to practice Land Surveying.
- Deeds to convey interest in the affected properties.
- Preliminary title report no older than six (6) months for all properties involved. One (1) copy of the Conditions Approval.
- Signed Owner Consent.

## Plan Sheet Requirements

### 3.1 General

Public Improvement Plans shall be prepared for public improvements required of subdivisions and all other work performed within City right-of-ways or easements that is in excess of minor work. For the purposes of this section, minor work shall consist generally of the construction, or the removal and replacement of curbs, gutters, sidewalks, or driveways, minor street widening, connecting to existing water, sewer or storm drainage facilities adjacent to site development and utility rated work.

The following requirements apply to the form of Public Improvement Plans.

### 3.2 Plan and Profile Sheets

All improvement plans shall be clearly and legibly drawn in ink on 24"x36" Arch D or 24"x34" ANSI D size paper. Sheets shall have 1 ½ inch wide clear margin at the left edge with a 1-inch-wide margin on all other edges, or as otherwise approved by the City Engineer.

#### Drafting Standards.

A. All linework shall be neat, clearly legible, and opaque to light. Letters and numerals shall have a minimum height of 1/8 inch and be well formed and sharp. Numerals showing profile elevations shall not be bisected by station grid lines. Dimension lines shall be terminated by a sharp solid arrowhead.

B. **Scale**

Horizontal scale shall be 1 inch = 20, 40 or 50 feet and shown as a scale bar beneath the north arrow. Vertical scale shall be 1 inch= 2, 4, or 5 feet.

C. **Title Block**

A title block must be shown on each sheet within the set of drawings and shall show the subdivision or project name, sheet title, sheet number, date, scale and Engineer of record's name, signature and license number. The title block shall be placed along the lower edge or right edge of the sheet.

#### Orientation

All plan sets shall be oriented with the North arrow pointing either to the top or right edge of the plan sheet.

### 3.3 Title or General Information Sheet

Each set of Improvement Plans shall have a Title or General Information Sheet. This sheet shall be sheet 1 of the plans and shall include the following:

- A vicinity map drawn to a convenient scale, preferably not less than 1 inch = 2000 feet. The North arrow must point to the top of the sheet\*
- A North arrow and scale\*
- Sewer or storm drainage network\*
- Index of sheets\*
- A signature block for the City Engineer\*

- Utility information block\*
- Block for City Project Number and Date Improvements Completed\*
- The entire subdivision or parcel drawn to a scale of not less than 1 inch= 200 feet, or as approved by the City Engineer. The map shall provide the following:
  - Streets and street names of all streets within or contiguous to the project
  - Adjacent subdivisions or parcels properly identified including names, lot lines and lot numbers.
  - All property lines
  - City limit line
- Legend of symbols
- The most current version of the City General Notes (Attachment A)
- Typical street sections including TI and R values
- Temporary and permanent benchmarks with description, the engineer of record shall contact the City for the location and elevation of the nearest official benchmark. Datum information.\*
- Any California Environmental Quality Act (CEQA) Mitigation measures that apply to the project.
- Approval from other jurisdictions with signatory boxes , such as Caltrans, Reclamation Districts, etc

Improvement plans consisting of fewer than 4 sheets, shall not include a title sheet, but instead show all of the above information on the plans. If a title sheet is not required those items shown with an (\*) shall be shown on the first sheet.

## 3.4 Street Plan and Profile Sheets

A. The following requirements are for all plans submitted to the City for review and approval.

### Plan View

The plan view of each street to be improved shall be shown on separate sheets and shall include existing improvements and contours/elevations within 100 feet of the project boundary, proposed improvements and future improvements, if known. Proposed improvements shall include sidewalks, curbs, gutter, driveways, sewer mains, water mains, sewer lateral locations, storm drains, manholes, valves, fire hydrants, fencing, barricades, monuments, survey stationing, signal pull boxes, signal poles, hardscape features, curve data for all curves along centerline and curb returns and distinct elevations along the face of the curb at all beginning and ends of curves and at all curb returns.

In addition, right-of-way lines, easement lines, and City limit lines (if applicable) shall be shown. Call outs on the plans to City Standards shall reference the Drawings where these are shown. Callouts for non-standard improvements shall reference the detail, including sheet number, which provides the construction specifics. Other data may be required as specified by the City Engineer. The survey stationing shall normally read from left to right with the North arrow pointing either to the top or right edge of the sheet. All stationing shall be a continuation of that used for the design for existing improvements where possible.

### **Profile View**

The profile view of each street shall be shown immediately below its plan view. The profile shall include existing and proposed street centerlines, sewer mains, storm drains, water mains, public utility mains, all utility crossings and gutter flow lines. Distinct elevation shall be shown on the street centerline and gutter flow line at 50-foot stations and grade break points, manhole and catch basin inverts and elevations and water main crossing with other utilities. Rates of grade shall be shown on all profile lines. Elevations of hydraulic grade line for the 10 year frequency storm shall be shown at all storm drain manholes, catch basins and drain inlets where located above the top of the pipe. Elevations of the hydraulic grade line for 100 year frequency storms shall be shown at all crossings of arterials, culverts and where determined necessary by the City Engineer. Storm drain manhole and inlet identification numbers from drainage study shall be shown at all storm drain manhole and inlet locations.

B.

**Signing and Striping Plans**

All existing and proposed traffic signing and striping shall be shown on a plan view and on separate sheets from all other improvements. The scale shall be 1 inch = 40 feet, or as otherwise approved by the City Engineer. Signing and striping to be shown shall include all existing and proposed traffic striping, pavement markings, pavement markers, regulatory signs and warning signs. All existing signing and striping within at least 200 feet of the project limits shall be shown.

C.

**Rough Grading and Finished Grading Plans**

Rough grading and finished grading plans shall conform to these standards.

D.

**Other Plans**

Other Plans shall be incorporated in the public Improvement plans include, but are not limited to, landscaping and irrigation, dry utilities, retaining and decorative soundwalls, and traffic signals. The layout of meandering sidewalks, soundwalls, pedestrian pass-throughs, etc shall be shown on the improvement plans along with any grading associated with these improvements, in addition to being shown on the landscaping plans. Public Improvements built under the landscaping plans shall be included in the cost estimate submitted with the improvement plans in order that they may be properly bonded for and inspections costs covered.

### **3.5 Detail Sheets**

Detail sheets, if necessary, shall delineate special details, structural designs, etc., for which no standard detail exists, and when space is not available on the plan and profile sheets.

Plan views of the structure, for which details or designs are to be provided, shall be shown on the detail sheet depicting the location of said structure in relation to street centerlines, stations, bearings, shews, grades, etc.. Structural details shall be delineated at a scale that will clearly define all facets of the design. Standard Details shall not be delineated on details sheets or any other sheet unless reproduced in full.

### **3.6 Parcel and Final Maps**

The parcel or final map shall be prepared by or under the direction of a Civil Engineer registered in the State of California authorized to practice Land Surveying or a licensed land surveyor in the manner required by the State Subdivision Map Act, and these standards.

## Preparation and Form

The general form and layout of the map, including size and type of lettering, drafting and location acknowledgements, etc. shall be as approved by the City Engineer. Parcel and final maps shall conform to the following:

A.

- Survey information shall generally read from left to right and orientated perpendicular or parallel with the northernly direction. North shall be oriented to either top or right edge of the sheet.
- Large lot final maps or large lot parcel maps shall not be more than 1 inch = 100 feet, unless otherwise permitted by the City Engineer. The scale of residential final maps shall not be more than 1 inch = 50 feet. All maps shall clearly show all details of the subdivision.
- All dimensions shall be shown in feet and hundredths of a foot. No ditto marks shall be used.
- If more than 2 sheets are necessary to show the entire subdivision, a graphical index shall be included.
- The subdivision designation, tract number, other numbers assigned by the City Engineer, scale and North arrow shall be shown on each sheet.
- A title sheet, designated as page number 1 of the final map, shall be provided. Where the size of the subdivision permits, in lieu of a separate title sheet, the information required may be shown on the same sheet as the map of the subdivision.

B. **Certificate Sheet**

The certificate sheet shall contain the following information:

- The title followed by the words "Subdivision No (Insert Planning Department filing number)." "City of Gridley, Butte County, California."
- Below the title shall be a subtitle, consisting of a description of all property being subdivided with reference to such map or maps of property shown thereon and shall have been last previously recorded or filed in the County Recorder's Office, or shall have been previously filed with the County Clerk pursuant to a final judgement in any action in partition, or shall have been previously filed in the office of the County Recorder under authority of the Subdivision Map Act or be reference to the plat of any United States survey.

The title shall also include the Section(s), Township and Range of Mount Diablo Meridian.

- The subtitle of maps filed for the purpose of reverting subdivided land to acreage shall consist of the works "A reversion to acreage of..." (insert description as required herein).
- Reference to tracts and subdivisions in the description must be worded identically with original records. Reference to book and page of record must be complete.
- Affidavits, certificates, acknowledgements, endorsements, acceptances, dedications and notarial seals as required by law including but not limited to the Subdivision Map Act and City ordinances.

## Information

The parcel or final map shall substantially conform to the City approved or conditionally approved tentative map including all approved modifications, and shall contain the following information:

C.

- All areas shown on the map which do not constitute a part of the subdivision shall be labeled "Not a part of the subdivision" or "N.A.P.O.T.S." All lines delineating such areas shall be dashed.
- The following survey data and information shall be shown on the final map:
  1. Corner Stakes, monuments (together with their precise position) or other evidence found on the ground, to determine boundary of the subdivision.
  2. Corners of all adjoining properties identified by lot and block numbers, subdivision names, numbers and pages of record, or by section, township and range or other proper designation.
  3. All information and data necessary to locate and retrace any point or line without reasonable difficulty.
  4. The location and description of any required monuments to be set after recording of the parcel map, and the statement that they are "to be set."
  5. Bearings and lengths of each lot line, centerline, block line and boundary line and each required bearing and distance. All line annotations shall be located adjacent to the described line. Curve and line tables can be used to avoid crowding and conflicts with line work or other information shown on the maps.; however, the use of annotation tables shall be kept to a minimum and located on the same sheet as the line work.
  6. Details shall be located on the same sheet as the line work being depicted in the detail.
  7. Chord length, chord bearing, radius, arc length and central angle of each curve.
  8. The survey center lines of any street or alley in or adjacent to the parcel together with reference to a field book or map showing such center line and the monuments which determine its position. If the monuments are determined by ties that fact shall be so stated.
  9. Sheet numbering shall be located in the lower right hand corner of each sheet.
  10. Such other survey data or information as may be required to be shown by the City.

All resulting lots or parcels being subdivided for the purpose of sale, lease, or financing excluding those exempt by law, and all parcels offered for dedication to the City or any other public agency, for any purpose with all dimensions, boundaries, and courses clearly shown and defined.

Dimensions of lots shall be as total dimensions corner-to-corner, in addition to point-to-point dimension.

All lots shall be numbered consecutively, without omissions or duplication, throughout the subdivision, starting with the number 1, except units of a total development. Lot numbering shall be consistent with that of the approved or conditionally approved tentative map or as approved by the City Engineer. Only parcels offered for dedication other than for streets or easements shall be designated by letters. However, in single-family divisions, the parcels intended for other than single-family use may be designated by letters. Each numbered lot shall be shown entirely on one

sheet. The text height of a lot number or designated letter lot shall be a minimum of 1.5 times larger than the surrounding line annotation.

The square footage (to the nearest foot) shall be shown on the map directly under the lot number. Lots one acre or greater shall be shown with the net acreage (to the nearest one hundredth of an acre).

The location and total width of all public streets, alleys, pedestrian ways, equestrian and hiking trails and biking paths, and rail road rights-of-way; the names of public streets, and the width on each side of the centerline of each public street; the width of the portion of the street, alley, pedestrian way, equestrian and hiking trail and bike path being dedicated , and the width of the existing dedication, public or private if any within the subdivision.

All necessary data, including widths and sidelines of all proposed and existing public utility easements to which the lots of the subdivision are subject. Each easement shall be clearly labeled as to nature and purpose and if already of record, its recorded reference given. If an easement of record cannot not be plotted on the map because its location is not defined or definite, an attempt shall be made to have the easement extinguished and removed from the title. Easement shall be denoted by fine dashed lines.

All limitations on rights of access to and from streets and lots and other parcels of land shall be shown on the map.

The lines of any natural watercourse, channel, stream, creek or body water in or adjacent to the subdivision and/or officially adopted floodplain lines, which constitute parcel boundary lines or easement lines shall be shown on the map.

Any City boundary crossing or adjoining subdivision clearly designated and tied in shall be shown on the map.

The bases of bearings shall be shown, that were used in the field survey, making reference to some recorded subdivision map or tother source acceptable to the City Engineer.

D.

### **Additional Data Required**

The following statements, documents and other data, and as many additional copies thereof as may be required shall be filed with the parcel or final map:

On the application form, the names, addresses, and telephone numbers of the record owners and subdivider and persons preparing the Parcel or Final Map.

A guarantee of title or letter from a title company, certifying that the signatures of all persons whose onset is necessary to pass a clear title to the land being subdivided and all acknowledgements thereto, appear and are correctly shown on the proper certificates, and are correctly shown on the final map; both as to consents for the making thereof and the affidavit of dedication.

A traverse computations sheet in a computerized form approved by the City Engineer; giving bearings, distances and coordinates and showing the mathematical closure. No manual computations will be accepted. All lots must close to within 0.02 feet or as specified by the City Engineer. Each sheet of survey closures shall be numbered sequentially.

All protective covenants, restrictions, or affirmative action obligations in the form in which the same are to be recorded when approval thereof by an officer of the City has been required as a condition of approval of the Tentative Map.

All other data required by law as a conditional approval of the Tentative Map, including plans, reports, agreements, permits, fees security or other requirements.

### **Subdivision Agreement**

If the requirement improvements for the subdivision have not been completed to the satisfaction of the City Engineer and Accepted by the City council prior to recording of the Parcel map or Final map, the subdivider shall enter into a subdivision agreement with the City the form of the

E. agreement shall be as approved by the City Attorney, and said agreement shall be approved by the City council and recorded concurrent with the parcel or Final map.

## **3.7 Property of the City of Gridley**

All plans, maps, reports and any other items submitted to the City shall become property of the City. The City shall not be responsible for the return of these items once they are submitted.

## Contractor's and Developer's Responsibilities

### 4.1 General

All improvements within City's rights-of-way, and easements, and onsite private drainage improvements shall be installed in accordance with the approval improvement plans and specifications, the City of Gridley Standards, and the State of California Department of Transportation Standard Specifications, hereinafter referred to as the Caltrans Standard Specifications.

The public roadway infrastructure improvements shall be designed and constructed in accordance with these Design and Construction Standards and the latest edition of the City's American Disabilities Act (ADA) Transitions Plan. Should there be any discrepancy between these Standards and the ADA Transition Plan with respect to accessibility, the ADA Transition Plan shall have precedence. Caltrans Standard Specifications shall apply where not superseded by these Construction Standards. The Contractor shall follow all applicable City, County, State and Federal laws and regulations relating to construction on the improvements.

### 4.2 Contractor's Responsibility

It shall be the Contractor's responsibility for:

#### Plans

- A. Perform construction per plans signed and approved by the City. Any additions, deletions or changes to the approved plans shall be submitted to their departments for review and approval prior to construction.

#### Notification

The Contractor shall schedule a preconstruction meeting with the City to review and inspect the improvements. The meeting shall take place a minimum of 48 hours prior to the start of construction. The preconstruction meeting shall not be scheduled prior to the City departments' receipt of approved plans.

Minimum advance notice to the City's Construction Inspector for inspection shall be 48 hours. The City's Construction Inspector shall have the opportunity to inspect all underground/subsurface improvements prior to backfill or cover. The scope of various inspection parameters and participation of contracted special inspection duties shall be identified at this time.

- C. The developer/contractor is responsible for completing the project per the approved plans and specifications. Once deemed complete at the discretion of the City Inspector, it shall be the developer's responsibility to notify the City Inspector to commence City procedures to establish a project punch list prior to City acceptance.

#### USA Markings

White paint shall be used to indicate areas to be marked by Underground Service Alert (U.S.A.). Any areas not marked shall not be included in the U.S.A. and the Contractor shall not excavate in these areas. The Contractor will be responsible for any damage resulting from excavation in unmarked areas. The Contractor or Applicant who requested the USA markings shall be responsible for the removal of the USA markings upon completion of the work, at the discretion of the City Engineer.

. The Contractor shall take routine precautions to ascertain the location of any underground utilities in the vicinity of their project prior to U.S.A. marking. Contractor shall notify the City's Construction Inspector when any system is affected.

### **Testing**

Constructed utilities shall be tested in accordance with these standards. All testing results shall be provided to the Construction Inspector within 5 working days after the Contractor has received the results.

### **D. Cultural Resources**

The Contractor shall stop construction if cultural resources are discovered during excavation operations. It is possible that previous activities have obscured surface evidence of cultural resources.

E.

If signs of an archeological site, such as any unusual amounts of stone, bone, or shell are uncovered during grading or other construction activities, work shall be halted within 100 feet of the find and the City, as well as the Butte County Tribal Historic Preservation Office shall be notified immediately. A qualified archaeologist shall be consulted for an on-site evaluation. Additional mitigation may be required by the archaeologist.

### **Hazardous or Toxic Materials and Contaminated Soils**

F.

Should the Contractor encounter hazardous or toxic materials, or contaminated soils, or materials which the Contractor believes may be hazardous waste during any and all excavation or grading operations, as defined in Section 25117 of the Health and Safety Code, which require them to be moved to a Class I, Class II or Class III disposal site in accordance with provisions of existing law, the City of Gridley Fire Department shall be contacted immediately. The area which contains the hazardous or toxic materials or contaminated soils shall be marked off until an investigation by a member of the Fire Department is conducted. The cost for remediation and/or removal of soil shall be borne solely by the Contractor/Property owner. The parties intend that this provision be broadly construed.

G.

### **Working Hours**

In accordance with the City of Gridley's noise ordinance (9.40.160), the hours of project construction shall be limited to the following:

6:00AM to 7:00PM, Monday through Friday

H.

There may be additional limitations placed on working hours specified in the project's approved plans, conditions of approval, special provisions, or encroachment permit. Any requests for work outside of the hours listed above should be made in writing and will be considered by the City. Should a request be approved, the Contractor may be required to pay additional fees for City Inspection outside of normal business hours.

### **Emergency Contact Person**

Prior to the commencement of project construction, the City's Construction Inspector shall be furnished with the name and telephone number of a contact person who can be reached 24 hours per day regarding problems or emergencies at the site.

## **Traffic Control**

A traffic control plan (TCP) shall be submitted by the Contractor/Developer whenever required by the City. When the City's Construction Inspector has determined a TCP is required, the Contractor shall submit the plan to the City for acceptance. The plan shall include: The project title, the encroachment permit number if applicable, the requested traffic alteration specifics and the requested working hours., The TCP shall be available at the site at all times during the work. The Contractor shall assure that the traffic control equipment is erected prior to the work beginning and that it is removed immediately when appropriate.

I.

## **Preservation of Property**

The Contractor shall take extreme care to protect existing site and adjacent improvements from damage.

J.

The Contractor shall be responsible for any damage resulting from the construction and shall be responsible for repair or replacement conforming to the latest standards.

## **Personnel**

K.

Only personnel competent in the particular trade undertaken shall be employed for the construction work.

## **Weather**

L.

Construction work shall not commence or progress when the weather jeopardizes a safe working environment or the quality of the project in any manner. The contractor shall comply with the Storm Water Pollution Prevention plan on site.

Construction activities within or adjacent to the public right of way during inclement weather may be prohibited where the activity constitutes an unsafe condition for the public and/or the workers. This applies to the traveled way and any work area adjacent to the traveled way.

M.

## **Trenching Safety**

Prior to excavation of trenches 5 feet or deeper, the Contractor shall submit the following to the City's Construction Inspector:

- A copy of the company's annual CALOSHA T-1 trenching permit.
- A copy of the company's letter informing CALOSHA of the time the trenching is commencing and the location of the work prior to trenchingwithin any City street right-of-way or easement, an encroachment permit shall be obtained from the City.

In unimproved areas, the maximum length of open trench (5 feet in depth or more) shall be that which can be trenched and backfilled in one day. Any trench left open overnight and the method of protection thereof shall be approved by the City's Construction Inspector.

In existing streets, following trenching and pipe laying, backfill shall be accomplished immediately unless approved otherwise by the City's Construction Inspector. No excavation which is larger than necessary to leave the end of the pipe exposed for the next work day shall remain open at the end of the day. The excavation shall be plated and/or fenced, subject to the approval of the City's Construction Inspector.

## Street Cleaning

N. Where dirt, mud, rock, sand or other foreign material are tracked onto public street pavement, the Contractor shall clean the streets daily, or as directed by the City's Construction Inspector. If the Contractor fails to keep the streets clean, the City may clean the areas and bill the Contractor. Streets shall be cleaned with a power broom or hand brooms and shall not be washed with water without the approval of the City's Construction Inspector. Any mud displaced into the City storm drain system by the Contractor shall be removed at the discretion of the City's Construction Inspector.

## Construction Safety

O. Construction safety within the City shall be governed by the Construction Safety Orders of the Occupational Safety and Health Standards of Title 8 of the California Code of Regulations.

## 4.3 Developer's Responsibility

It shall be the Developer's responsibility to provide Record Drawings in PDF electronic format, two sets of blue line prints (1 full size, 1 scaled) and shall be submitted to the City.

## 4.4 Residential Occupancies During Residential Building

Upon the occupancy of 1 or more homes in public or private subdivisions, the occupant (s) shall have a safe, clean, un-obstructed travel way, including sidewalks, in accessing and exiting the area of their home, applying to newly constructed streets within the subdivision extending to the closest existing street. The following minimum standards are to be met:

1. Streets shall be thoroughly cleaned, back of walk to back of walk at the end of each work day.
2. No building materials, portable toilets or construction equipment shall be stored within the street right-of-way. Portable toilets shall be a minimum of 50 feet from drain inlets.
3. A trailer with a valid California license may be parked along edges of the street within a subdivision for a period of 72 hours, provided the travel ways are unobstructed and each outside corner of the trailer has lighted barricades.
4. Erosion control materials at drain inlets such as straw bales and gravel bags shall be removed. Silt bags which are in drain inlets fronting homes with completed landscaping shall be removed.
5. Landscaping related materials (such as cobbles, bark or gravel) may be staged in the streets for immediate removal. If stored overnight, a lighted barricade shall be placed on each side of the pile, toward traffic. The pile shall not extend into the street from the curb further than the width of a parked car.
6. Unoccupied cul-de-sacs or other section of streets for which there is no public access necessary shall be barricaded.

## 4.5 Guarantee and Warranty

The Contractor shall guarantee and warrant all materials supplied as being fit for the purposes intended. The Contractor shall guarantee and warrant all work performed as having been accomplished in a proper and workman-like manner.

Should any failure of work occur within the warranty period, the Contractor shall promptly make the needed repairs at the Contractor's own expense. Should such failure of work result in excessive maintenance by the City, or in the opinion of the City, the failure is best left unrepaired, the Contractor shall incur the additional maintenance cost.

In emergency cases, where in the opinion of the City Engineer (provided a reasonable attempt has been made to notify the Contractor) delay would cause serious loss or damages, or a serious hazard to the public, the repairs may be made without prior notice to the Contractor, and the Contractor shall pay the entire cost thereof.

The procedures for review, repair and release of guarantee and warranty obligations shall be as follows:

### **Subdivision Improvements**

A. The guarantee and warranty shall continue for a period of one year after Notice of Completion for all public improvement work installed under any Subdivision Agreement. The Subdivision Agreement shall be binding in its entirety.

The following procedures shall be followed for completion of the guarantee and warranty for subdivision improvement:

1. All necessary City departments shall complete their guarantee and warranty inspections during approximately the tenth month following the completion and prepare and deliver a final punch list to the Contractor by approximately the end of the tenth month.
2. Within 30 days of receipt of the final punch list (during the eleventh month), the Contractor shall repair or address all items indicated. All City departments issuing a punch list shall then be notified for re-inspection of repairs.
3. Within 30 days of notifying the Contractor (by the end of the eleventh month), the City departments shall re-inspect the repaired improvements.
4. Upon the City's approval of the repairs, the maintenance bond will be allowed to expire, at the conclusion of one year following the Completion. If the Contractor does not complete the required work by the end of the eleventh month, the list of repairs will be referred to the City Attorney's office for further management.

B. 5. Any subdivision improvement work subject to the 1 year warranty shall require the issuance of an encroachment permit.

### **Underground Warranty Work within City Street Right-of-Way**

All underground work done as a result of the one-year warranty inspection shall comply with the following:

1. All backfill in City streets shall be two sack, slurry cement.
2. The asphalt concrete patch shall conform to Construction Standard Details TB-01A or TB-05. Determination of Detail TB-01A or TB-5 shall be at the developer's discretion.
3. Depending upon the extent of asphalt concrete patching necessary and at the discretion of the City's Construction Inspector, a CalTrans Type II slurryseal or one inch asphalt concrete overlay of the entire street width in the area of the patches may be required.
4. Pavement cracking: Depending upon the extent of cracking and at the discretion of the City's Construction Inspector, cracks shall be sealed per these Standards. Crack sealing

shall be followed with a slurry seal or one inch asphaltconcrete overlay which shall be applied to the entire street width in the area of the cracks as required by the City's Construction Inspector.

### **City's Policy on Warrant Repairs on Sewer Stub and Services**

Sewer Services to residential and commercial subdivision lots under warranty

Where a project inspection identifies defects in a sewer service and the sewer main is still within the warrant period, the responsibility to repair the service rests solely on the developer who installed the sewer main.

Sewer services to residential and commercial subdivisions outside of warranty

Where a project inspection identifies defects in a sewer service and the sewer main is no longer under warranty, the responsibility to repair the defects shall rest on both the developer and the City as follows:

- a) The developer shall be responsible to repair defects found in any sewer service from the first joint downstream of the sewer cleanout to the commercial or residential building (that portion of the sewer services that is considered "private").
- b) The City shall be responsible to repair defects found in any sewer service from the first joint downstream of the sewer cleanout to the sewer mainline (that portion of the sewer service that is considered "public").

Sewer stubs to residential and commercial subdivisions:

Where sewer stubs have been constructed on sewer mains, these sewer stubs become an integral part of the sewer system of the proposed residential or commercial subdivision they were designed and built to serve. The developer of the subdivisions shall be required to test and repair these stubs, if found damaged, prior to tie-ins. A note to this effect shall be placed on all Building and improvement plans to ensure the developer is aware of this requirement prior to initiating construction.

## Section 1 - Trench and Backfill

### 1.1 General

All trenching and backfill within the City of Gridley shall be performed in accordance with these Design and Construction Standards, the City of Gridley Standard Details, and the approved improvement plans. Trench excavation, bedding, backfill, and compaction shall be suitable for the intended utility and surface condition and shall be constructed to provide long-term structural support and minimize future settlement.

All trenching within City rights-of-way shall conform to the City's Standard Details and these standards. Where conflicts occur, the Standard Details and approved plans shall govern unless otherwise approved by the City Engineer.

Jetting of trenches is not permitted unless specifically approved in writing by the City Engineer.

### 1.2 Trenching Operations

All trenching operations shall comply with all applicable Federal and State safety requirements, including Cal/OSHA regulations. Domestic Water Excavation and Trenching Earthwork required to construct water pipelines, facilities and appurtenances shall be performed to the lines and grades shown on the approved project plans and as specified below:

#### A. Excavations

Pipeline excavations shall be open-cut trenches, unless otherwise specified on the approved improvement plans. Excavations shall conform to all applicable Federal and State safety requirements. All work shall be conducted in such a manner as to prevent damage to new and existing facilities or adjoining property. The contractor shall appoint a designated "competent person" during construction.

For water mains the trench shall be excavated a minimum of 6 inches below the outside diameter of the pipe per elevation on the approved plans. For water services the trench shall be excavated a minimum of 4 inches below the outside diameter of the pipe per elevation on the approved plans. For both water mains and services, if rocky or unyielding soil is encountered the trench shall be over excavated by 12 inches and backfilled with bedding material.

#### B. Trench Width

The trench bottom width shall be at a minimum the outside diameter of the pipe plus 12 inches and at a maximum the outside diameter of the pipe plus 4 feet and shall comply with the Standard Details or as approved by the City. If rocky or unyielding soil is encountered the trench width shall be increased by 12 inches. A minimum clearance of 6 inches shall be maintained between the pipe and the trench wall.

#### C. Compaction

Compaction of the trench shall conform to the Standard Details. Compaction test results shall be supplied to the City Inspector upon request. Jetting of trenches is not allowed.

#### **D. Weather**

Trenching during inclement weather should be avoided when possible. If trenching during inclement weather is required, trenches shall be excavated only as far as pipe can be laid and backfilled during the course of the day.

#### **E. Existing Roadways**

Trenching in existing roadways shall be limited to the length of pipe that can be laid that day. No open trenches shall be left overnight. Exposed trenches shall be plated and backfilled as approved by the City Inspector.

#### **F. Excess Material**

Excess material and materials determined unsuitable for backfill by the City Inspector shall be removed from the project site.

#### **G. Dewatering**

Dewatering for the installation of structures and pipelines shall commence when groundwater is first encountered and shall be continuous until the excavation is backfilled. Best Management Practices (BMP's) including but not limited to scouring and erosion measures shall be used to eliminate sediment-laden discharges in accordance with the approved SWPPP.

### **1.3 Sanitary Sewer Excavation and Trenching**

Earthwork required to construct sewer pipelines, facilities and appurtenances shall be performed to the slopes and grades shown on the approved project plans and as specified in the following:

#### **A. Excavations**

Pipeline excavations shall be open-cut trenches, unless otherwise specified on the approved improvement plans, and as specified on the Standard Details. Excavations shall conform to all applicable Federal and State safety requirements. All work shall be conducted in such a manner as to prevent damage to new and existing facilities or adjoining property. The contractor shall appoint a designated "competent person" during construction.

The trench shall be excavated a minimum of 3 inches below the outside diameter of the pipe per elevation on the approved plans for 12 inch diameter pipe or less. For pipes with a diameter greater than 12 inches it shall be excavated a minimum of 4 inches. If rocky or unyielding soil is encountered the trench shall be over excavated by 4 inches and backfilled with bedding material.

#### **B. Trench Width**

The trench bottom width shall be at a minimum the outside diameter of the pipe plus 2 feet and at a maximum the outside diameter of the pipe plus 4 feet and shall comply with the Standard Details or as approved by the City. A minimum clearance of 6 inches shall be maintained between the pipe and the trench wall.

#### **C. Compaction**

Compaction of the trench shall conform to the Standard Details. Compaction test results shall be supplied to the City Inspector upon request. Jetting of trenches is not allowed.

#### **D. Weather**

Trenching during inclement weather should be avoided when possible. If trenching during inclement weather is required, trenches shall be excavated only as far as pipe can be laid and backfilled during the course of the day.

#### **E. Existing Roadways**

Trenching in existing roadways shall be limited to the length of pipe that can be laid that day. No open trenches shall be left overnight. Exposed trenches shall be plated or backfilled as approved by the City inspector.

#### **F. Excess Material**

Excess material and materials determined unsuitable for backfill by the City Inspector shall be removed from the project site.

#### **G. Dewatering**

Dewatering for the installation of structures and pipelines shall commence when groundwater is first encountered and shall be continuous until the excavation is backfilled. Best Management Practices including but not limited to scouring and erosion measures shall be used to eliminate sediment-laden discharges in accordance with the approved SWPPP.

### **1.4 Storm Drain Excavation and Trenching**

All drainage improvements shall conform the following requirements:

#### **A. Excavation**

Pipeline excavation shall be open-cut trenches, unless otherwise specified on the approved improvement plans. All excavations shall adhere to all applicable Federal and State safety requirements. All work shall be conducted in such a manner as to prevent damage to new and existing facilities or adjoining property.

The trench shall be excavated a minimum of 3 inches below the outside diameter of the pipe per elevation on the approved plans for 12 inch diameter pipe or less. For pipes with a diameter greater than 12 inches it shall be excavated a minimum of 4 inches. If rocky or unyielding soil is encountered the trench shall be over excavated by 4 inches and backfilled with bedding material.

#### **B. Trench Width**

For pipes with an outside diameter of 30 inches or less the trench width shall be outside diameter plus 16 inches. For pipes with an outside diameter greater than 30 inches the trench width shall be equal to the outside diameter multiplied by 1.25 plus 12 inches. A minimum clearance of 6 inches shall be maintained between the pipe and the trench wall.

#### **C. Compaction**

Compaction of the trench shall conform to the Standard Details. Compaction test results shall be supplied to the City upon request. Jetting of trenches is not allowed.

#### **D. Weather**

Trenching during inclement weather should be avoided when possible. If trenching during inclement weather is required, trenches shall be excavated only as far as pipe can be laid and backfilled during the course of the day.

## **E. Existing Roadways**

Trenching in existing roadways shall be limited to the length of pipe that can be laid that day. No open trenches shall be left overnight. Exposed trenches shall be plated or backfilled as approved by the City inspector.

## **F. Excess Material**

Excess material and materials determined unsuitable for backfill by the City Inspector shall be removed from the project site.

## **G. Dewatering**

Dewatering for the installation of structures and pipelines shall commence when groundwater is first encountered and shall be continuous until the excavation is backfilled. Best Management Practices including but not limited to scouring and erosion measures shall be used to eliminate sediment-laden discharges in accordance with the approved SWPPP.

## **1.5 Trench and Backfill**

Trench backfill within the City street right-of-ways shall conform to the Standard Details. Moisture content shall be controlled to obtain the optimum density for the soil type encountered. All compaction testing shall conform to ASTM D1557-78 test methods. Trench and backfill compaction shall be tested and certified by a licensed geotechnical engineer at the Developer's or Contractor's expense. Certification shall be provided to the City Inspector prior to the construction of surface improvements.

Backfill for joint utility trench shall be clean sand or  $\frac{3}{4}$ " aggregate base uniformly graded with a minimum sand equivalent of 25 or Class 2 Aggregate Base. Compacted to 95% relative compaction.

Following paving operations and where utility valve clusters are present, standard mechanical compaction efforts and equipment may have limited access to achieve adequate compaction per these Standards. In these cases, it is authorized that controlled low-strength material (CLSM) may be used within the valve excavation area to just below the required concrete collar height. Once cured, placement of concrete collar and/or HMA paving operations may progress.

### **A. Existing Streets**

Longitudinal trenches for dry utilities (CATV, telephone, gas, electric, traffic signal and signal interconnect cable) shall be excavated 6 inches clear from the gutter lip.

Following the patching of the trench with asphalt concrete, the street surface shall be CLSM sealed from the gutter lip to the edge of the bike lane stripe (usually 4 feet wide). If the bike lane stripe is obliterated in any manner by the construction process, it shall be replaced with thermoplastic per these Standards. If the dry utility trench impacts the travel line due to crossings the street surface shall be CLSM sealed from the gutter lip to the edge of the travel lane.

### **B. Jetting**

Compaction of trench backfill by jetting methods is **NOT** allowed in City right-of-way areas or over dedicated storm, sewer or water easements or mains. Jetting of joint utility trenches behind the right-of-way and within public Utility easements may be allowed under specific

conditions and upon the written approval of the City's Construction Inspector and the Geotechnical Engineer.

## C. Material

Material for backfilled trenches shall contain no organic material and no rocks or soil lumps exceeding 4 inches in diameter with the following qualifications:

- Cobbles in the initial backfill (the first 1 foot above the pipe bedding covering the pipe) shall be 3 inch maximum diameter.
- An exception to the 4 inch maximum diameter cobble is where cobbles exceed 4 inches in diameter and are predominant (as determined by the City's Inspector and Geotechnical Engineer). In this condition, 8 inches in diameter is the maximum size cobble allowed.
- The maximum cobble size shall not be greater than that of the depth of the maximum compaction lift, for the type of equipment used.

CLSM cement backfill, controlled low-strength material or dry mix "Popcorn" may be used on a case-by-case basis. The Contractor shall submit a proposed design mix to the City Inspector for review and approval prior to placement.

Native soil shall not be used for bedding or backfilling of utility conduits or chases within the City right-of-way, but only select bedding materials as discussed in these Specifications and per the Standard Details.

## D. Placement of Material

Equipment shall be a size and type satisfactory to the on-site geotechnical engineer and the City's Inspector. Impact-type pavement breakers or compactors (hydro-hammers) shall not be used within 5 feet of the top of any type pipe. Material for mechanically compacted backfill shall be placed in horizontal lifts which, prior to compaction, shall not exceed the depths specified below for the type of equipment employed. Actual maximum lift depth will vary with soil conditions and compaction equipment. The Contractor shall consult with a geotechnical engineer to determine the appropriate maximum depths. The Contractor shall be responsible for verifying compaction requirements for each lift.

## E. Typical Compaction Equipment and Maximum Lift Depths Achieved by Proper Compaction

**Maximum lift depth of 4 inches, equipment type:**

Portable, engine driven pneumatic type (wacker) Portable vibratory plate

**Maximum lift depth of 12 inches, equipment type:**

Backhoe mounted sheep-foot Vibratory smooth wheeled roller

Vibratory smooth wheel roller with pneumatic tires

**Maximum lift depth of 18 inches, equipment type:**

Impact, free-fall or stomping equipment (hydro-hammer)

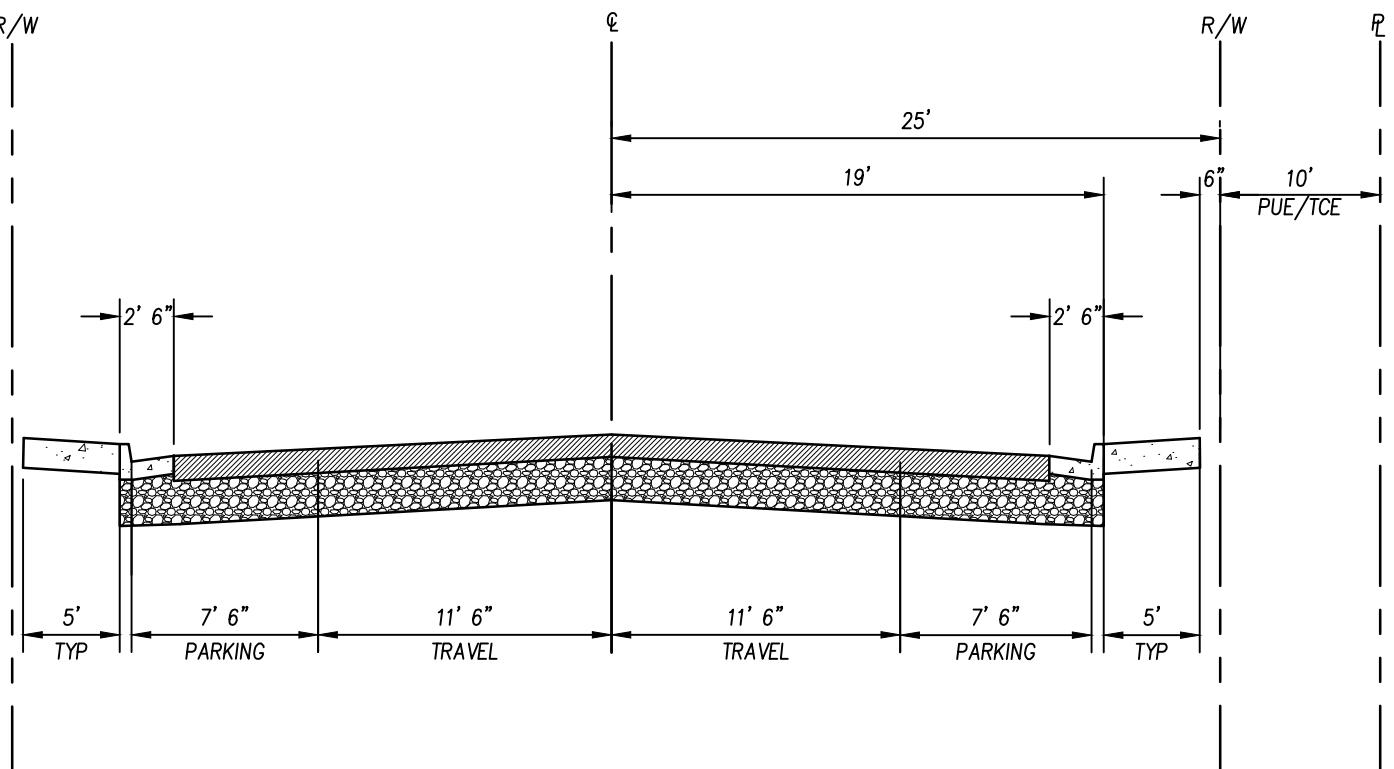
## F. Pipe Bedding References

See Standard Detail DR-10 for Storm Drain.

See Standard Detail W-15 for Water Main.

See Standard Detail W-16 for Water Services.

See Standard Detail SS-05 for Sewer Main and Services (within ROW).



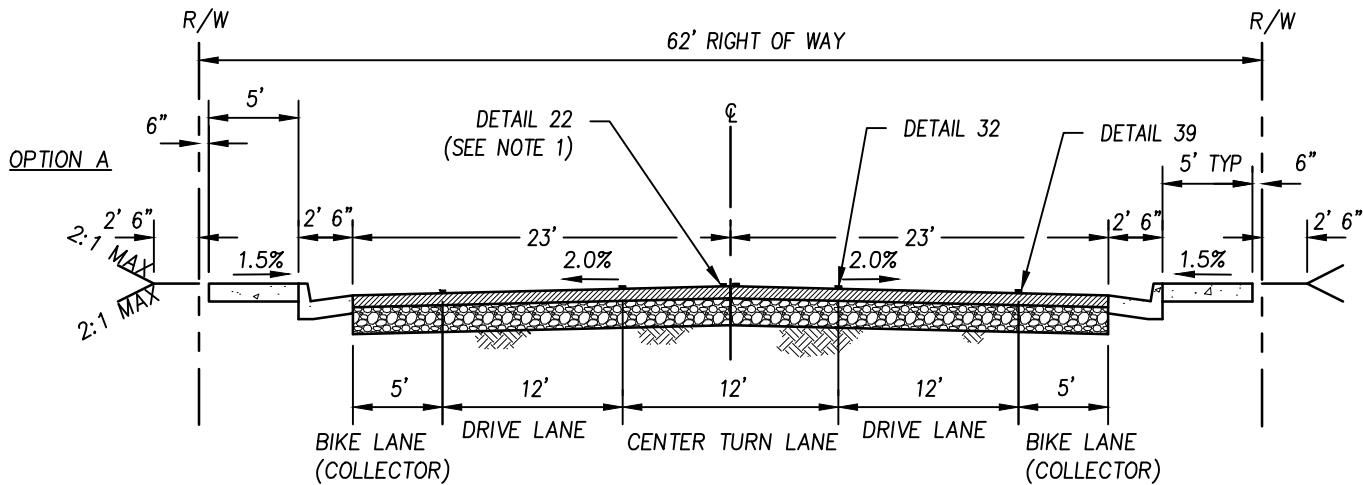
MINOR RESIDENTIAL STREETS ATTACHED SIDEWALK

NOTES:

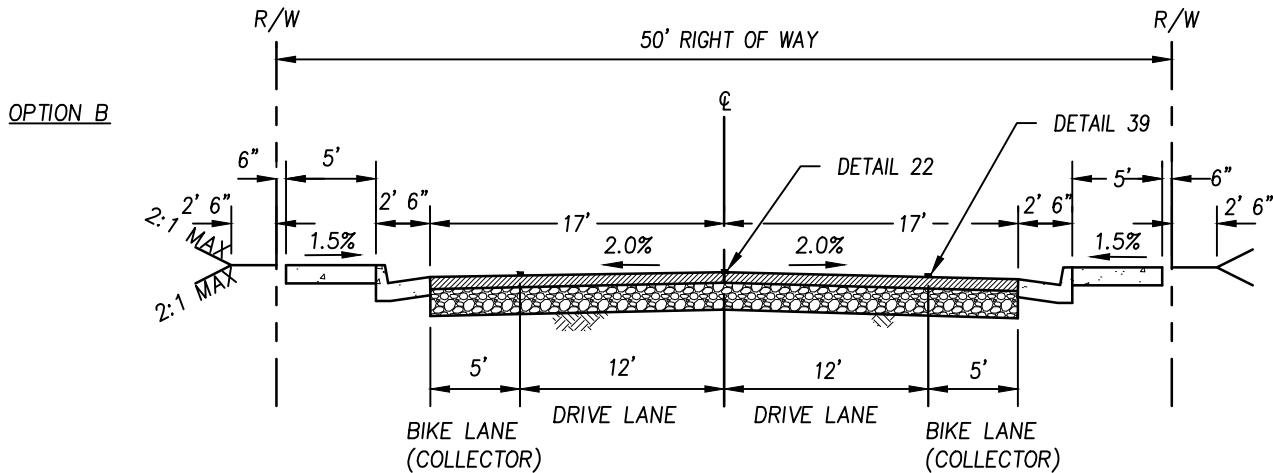
1. PAVEMENT SECTION TO BE HMA ON AB, SEE ST-20 OF THESE STANDARDS FOR STREET PAVEMENT REQUIREMENTS.
2. CURB AND GUTTER TO BE ROLLED CURB AND GUTTER (ST-06) ADJACENT TO SINGLE FAMILY RESIDENTIAL LOTS AND WITH APPROVAL FROM CITY ENGINEER. VERTICAL CURB & GUTTER (ST-08) AT ALL OTHER LOCATIONS.
3. SIDEWALK TO HAVE 4" CONCRETE ON 4" AGGREGATE BASE, SEE ST-08.
4. PRIVATE STREET SECTION'S WIDTH CAN BE REDUCED BY 5' BY ELIMINATING SIDEWALK FROM ONE SIDE OF THE STREET WITH THE APPROVAL OF CITY ENGINEER.
5. PUE/TCE – PUBLIC UTILITY EASEMENT

NO.	REVISION DATE	BY	MINOR RESIDENTIAL STREETS ATTACHED SIDEWALK	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			ST-01	





INDUSTRIAL COLLECTOR WITH CENTER TURN  
LANE AND ATTACHED SIDEWALK



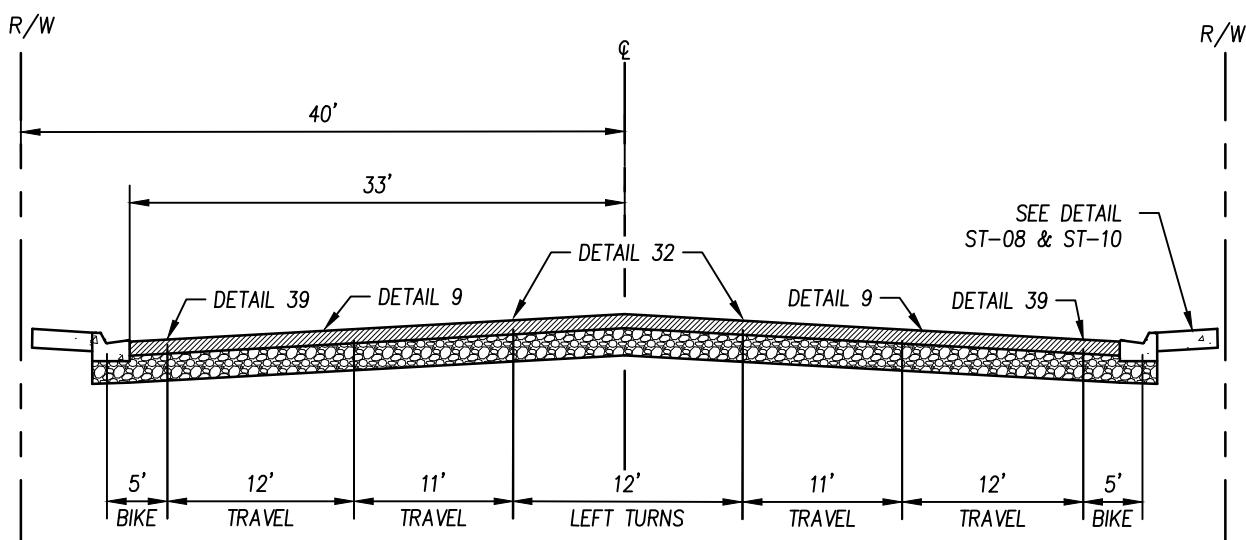
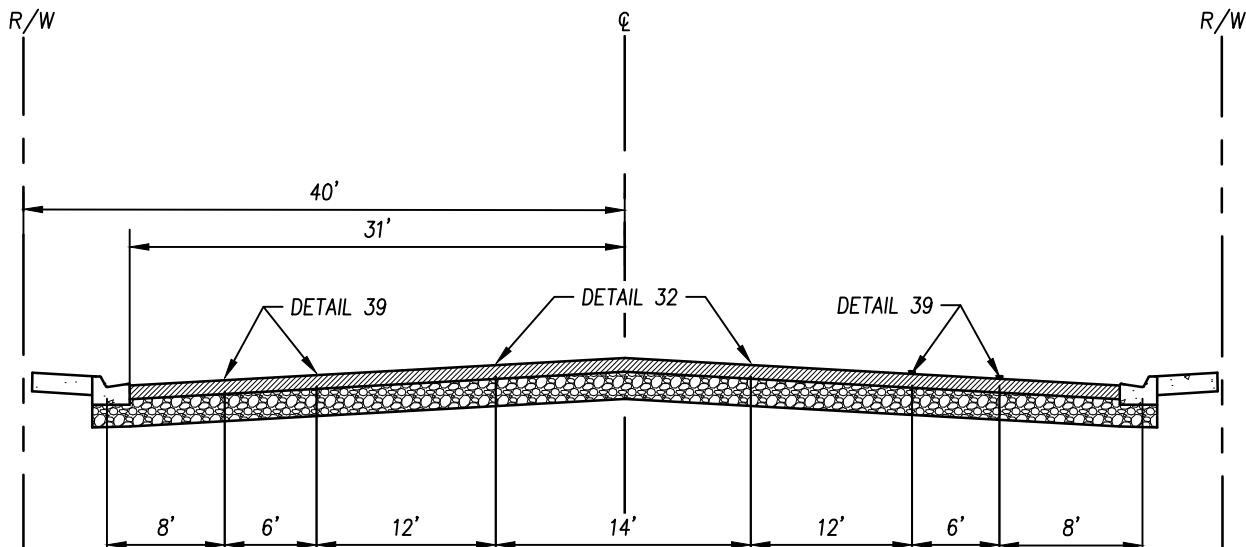
INDUSTRIAL COLLECTOR WITH ATTACHED  
SIDEWALK

NOTES:

1. ON INDUSTRIAL STREETS THE CENTER TWO WAY LEFT TURN (DETAIL 32) SHALL BE REPLACED BY STANDARD DETAIL 22 CENTERLINE STRIPING AND TURN POCKETS AS MAY BE REQUIRED. BIKE LANES MAY BE OMITTED AT THE DISCRETION OF THE CITY ENGINEER. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS AND SIGN DETAIL NUMBERS REFERENCE 2012 CALIFORNIA MUTCD.
2. PAVEMENT SECTION SHALL BE AC ON AB PER ST-12.
3. CURB AND GUTTER SHALL BE VERTICAL CURB AND GUTTER (ST-06 AND ST-08) AND SIDEWALK TO HAVE EITHER THICKNESS OF 4" CONCRETE ON 4" AGGREGATE BASE PER ST-08.
4. PUBLIC UTILITY EASEMENT (PUE) SHALL EXTEND 10' FROM RIGHT OF WAY (R/W) INTO ADJACENT PROPERTY

NO.	REVISION DATE	BY	INDUSTRIAL COLLECTOR STREETS ATTACHED SIDEWALK	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	ST-02

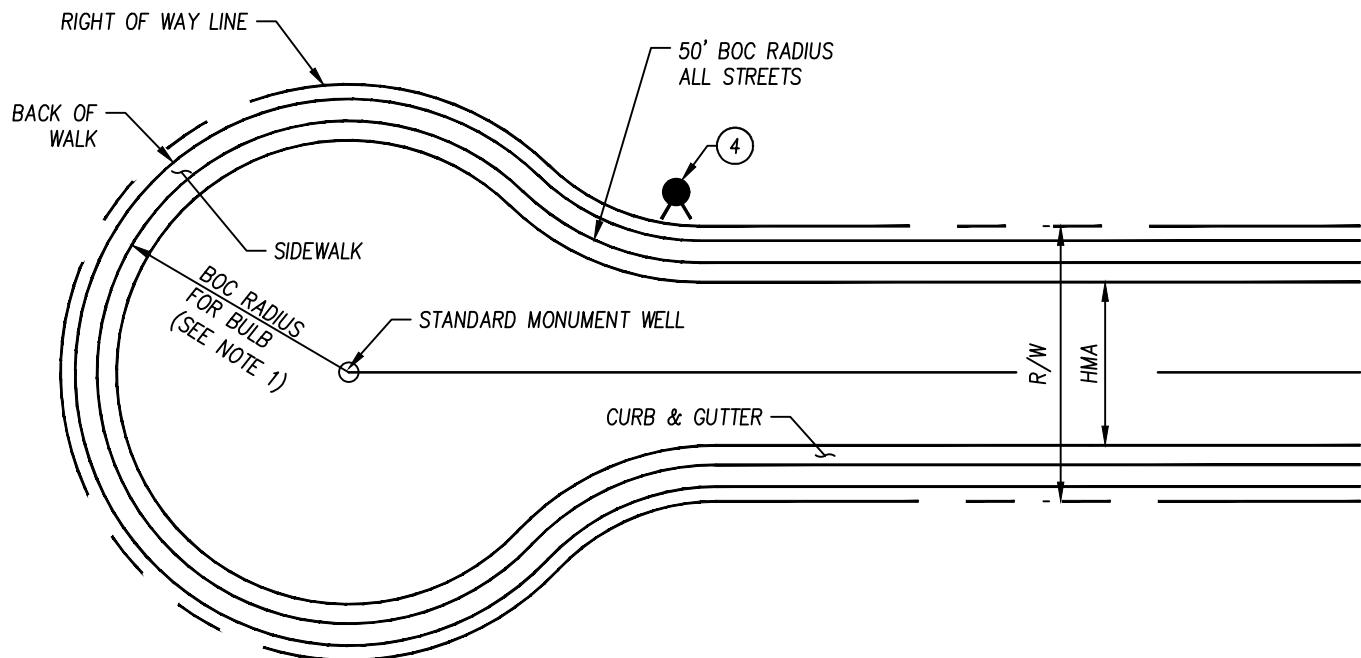




NOTES:

1. MINOR ARTERIAL SHALL BE USED WHEN PARKING IS ALLOWED TO BE INSTALLED. STRIPING AND SIGNS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE CALIFORNIA MUTCD.
2. ARTERIAL SHALL BE USED WHEN NO PARKING IS ALLOWED TO BE INSTALLED.
3. PAVEMENT SECTION SHALL BE HMA ON AB SEE ST-20.
4. CURB AND GUTTER SHALL BE VERTICAL CURB & GUTTER (ST-06 AND ST-08).
5. PUBLIC UTILITY EASEMENT (PUE) SHALL EXTEND 10' FROM RIGHT OF WAY (R/W) INTO ADJACENT PROPERTY

NO.	REVISION DATE	BY	ARTERIAL STREETS	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	ST-03



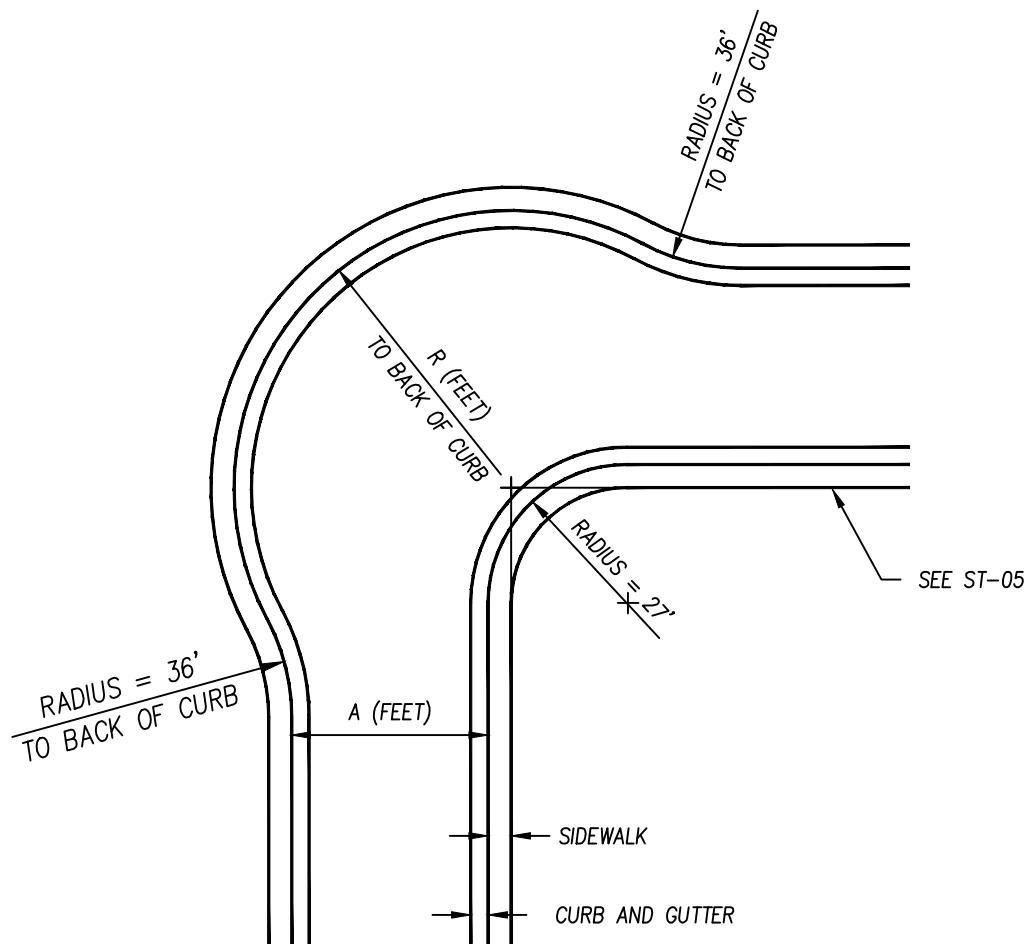
WIDTHS OF SURFACING, SHOULDERS AND  
RIGHT OF WAY OF CONNECTING ROAD VARIES

NOTES:

1. FACE OF CURB RADIUS FOR BULB SHALL BE AS FOLLOWS:  
INDUSTRIAL/RESIDENTIAL STREET - 30'
2. LENGTH OF CUL-DE-SAC STREETS SHALL BE MEASURED FROM CENTER OF BULB TO CENTER LINE OF INTERSECTING STREET. CUL-DE-SAC LENGTH SHALL NOT EXCEED 500' WITHOUT THE APPROVAL OF THE CITY ENGINEER.
3. ALL CUL-DE-SACS IN EXCESS OF 200' SHALL HAVE A FIRE HYDRANT INSTALLED AT THE BULB.

NO.	REVISION DATE	BY	CUL-DE-SAC STREET	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	ST-04





STREET TYPE  
INDUSTRIAL

R (FEET)  
60

A (FEET)

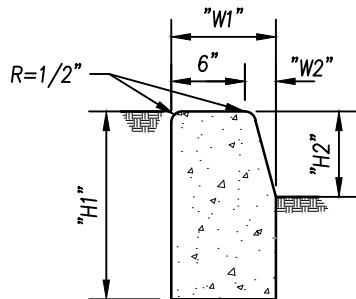
34  
38  
40  
48

R (FEET)

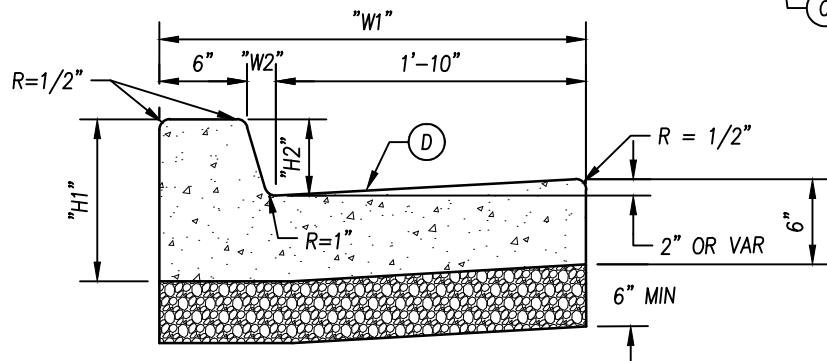
4  
5  
5  
6

NO.	REVISION DATE	BY	<b>STANDARD ELBOW</b>  <b>CITY OF GRIDLEY</b> <small>DEPARTMENT OF PUBLIC WORKS</small>	APPROVED BY: DAVID HARDEN
				 <b>DAVID HARDEN</b> CITY ENGINEER RCE 84216
DRAWN BY: J. GINNEVER				
CHECKED BY: D. HARDEN				
SCALE: NONE				
DATE: 2/2/26				<b>ST-05</b>

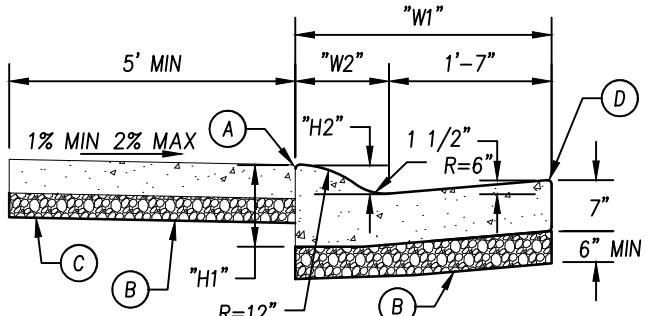
VERTICAL CURBS TYPES A1, A2, A3



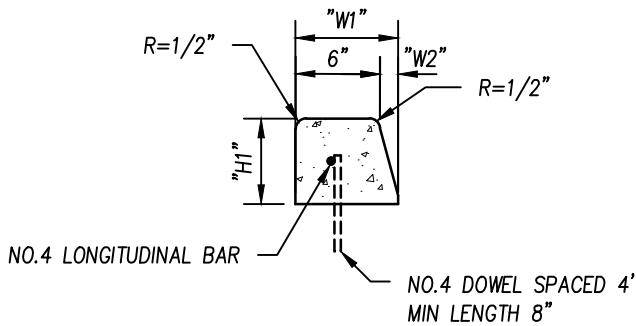
TYPE A1 CURBS  
SEE TABLE A



A4 ROLLED CURB & GUTTER



TYPE A2 CURBS  
SEE TABLE A



TYPE A3 CURBS  
SUPER IMPOSED ON EXISTING PAVEMENT  
SEE TABLE A

LEGEND:

- A. 1/8" DEEP SCORE MARK OR COLD JOINT
- B. CLASS 2 AGGREGATE BASE PROCESSED TO 95% RELATIVE COMPACTION.
- C. ALL SIDEWALK SHALL BE 4" CONCRETE ON 4" AGGREGATE BASE, SEE DETAIL ST-08
- D. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX WHEN ADJACENT TO CURB RAMP, OR BE LESS THAN 4%.

NOTES:

1. MINIMUM WIDTH OF CLEAR PASSAGEWAY FOR SIDEWALK SHALL BE 5'.
2. RETAINING CURBS AND ACQUISITION OF CONSTRUCTION EASEMENT MAY BE NECESSARY FOR NARROW SIDEWALKS OR CURB HEIGHTS IN EXCESS OF 6"
3. ALL ADJOINING SIDEWALK, CURB AND GUTTER MAY BE Poured MONOLITHICALLY.

NO.	REVISION DATE	BY
DRAWN BY:	J. GINNEVER	
CHECKED BY:	D. HARDEN	
SCALE:	NONE	
DATE:	2/2/26	

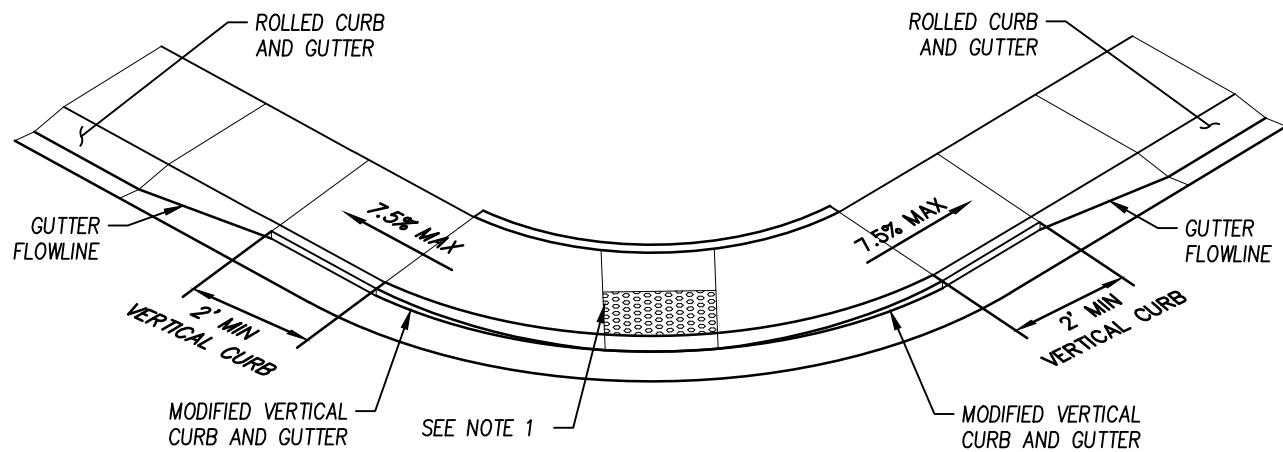
**CURB AND GUTTER**

**CITY OF GRIDLEY**  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



**ST-06**



NOTE:

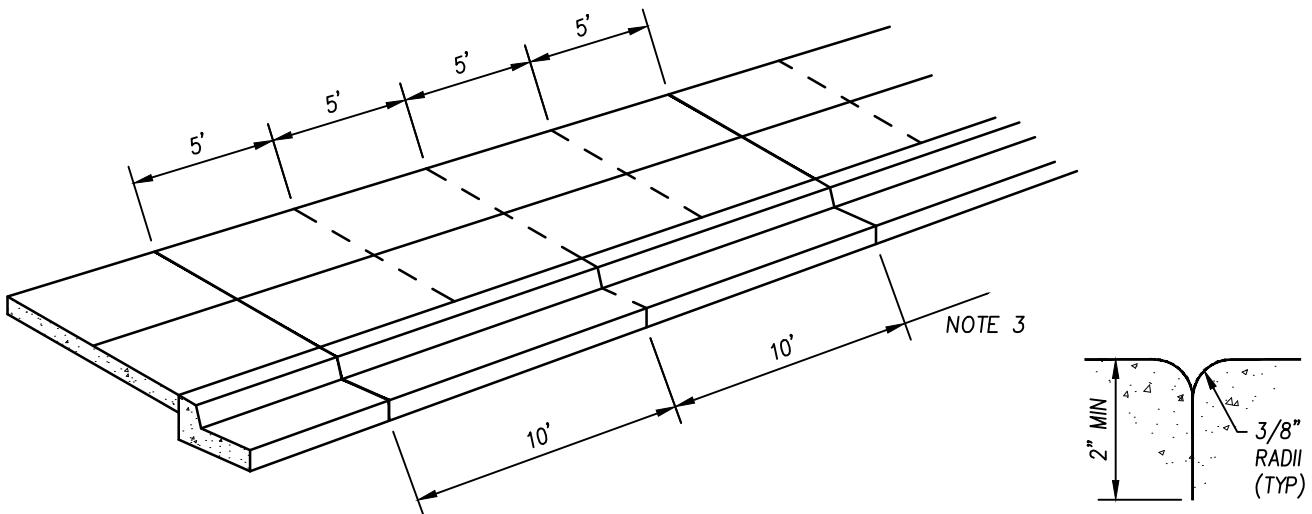
1. ALL CURB RAMPS SHALL CONFORM TO THE MOST CURRENT CALTRANS STANDARDS AND ACCESSIBILITY STANDARDS.
2. SIDEWALK TRANSITION RUNNING SLOPE NOT TO EXCEED 5% OR ADJACENT ROADWAY GRADE, WHICHEVER IS GREATER.

NO.	REVISION DATE	BY
DRAWN BY: J. GINNEVER		
CHECKED BY: D. HARDEN		
SCALE: NONE		
DATE: 2/2/26		

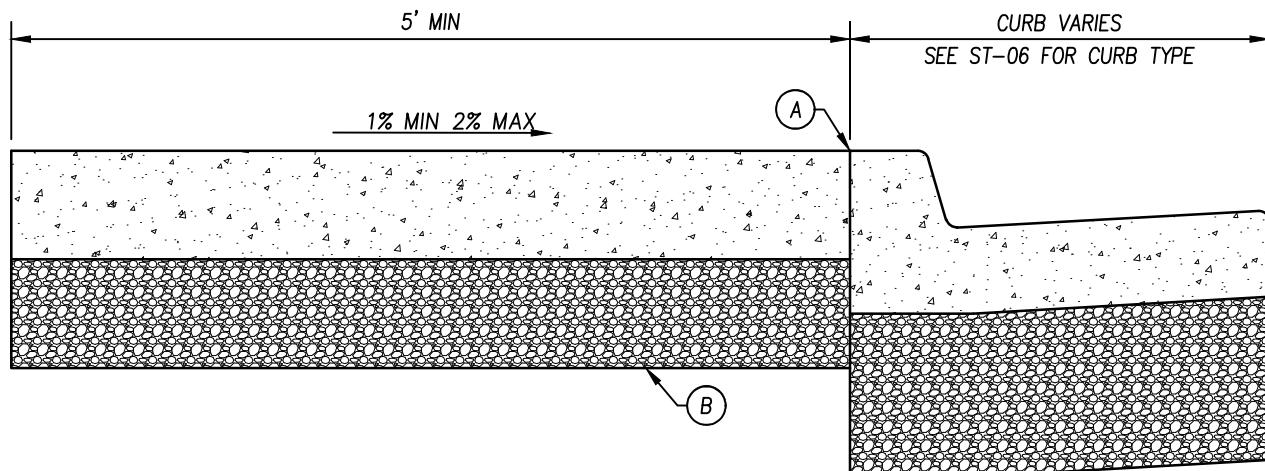
## CURB AND GUTTER TRANSITION

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216	 GRIDLEY CALIFORNIA
ST-07	



TOOL JOINT (TYP.) SEE "JOINTS"  
(CALTRANS STANDARD  
SPECIFICATIONS)



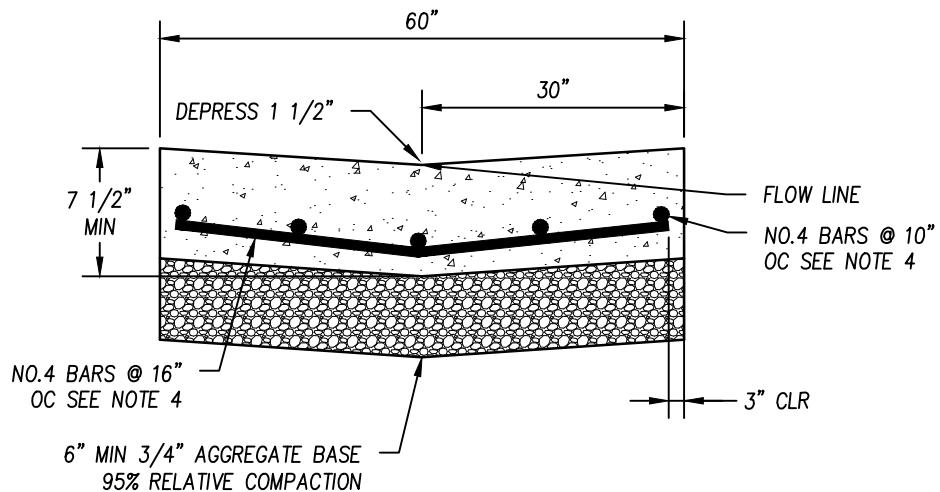
LEGEND:

- A. 1/8" DEEP SCORE MARK OR COLD JOINT
- B. SUBGRADE PROCESSED TO 95% RELATIVE COMPACTION. SIDEWALK IS 4" CONCRETE ON 4" AGGREGATE BASE.

NOTES:

1. DISTANCE BETWEEN SCORE LINES NOT TO EXCEED 5' IN LONGITUDINAL & TRAVERSE DIRECTION IN SIDEWALK.
2. TOOL JOINTS AT 20' INTERNAL FOR SIDEWALK. 8" SQUARE NOT TO EXCEED 6'.
3. TOOL JOINTS AT 60' INTERNAL FOR CURB & GUTTER.
4. JOINTS IN SIDEWALK TO BE ADJACENT TO JOINTS IN CURB & GUTTER.
5. CURB & GUTTER TO HAVE 1" SCORE AT 10' INTERVALS.
6. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX, IN FRONT OF A CURB RAMP ACCESS.
7. ADJOINING SIDEWALK, CURB AND GUTTER MAY BE POURED MONOLITHICALLY.

NO.	REVISION DATE	BY	CURB AND GUTTER WITH SIDEWALK	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	ST-08



60-INCH VALLEY GUTTER

NOTES:

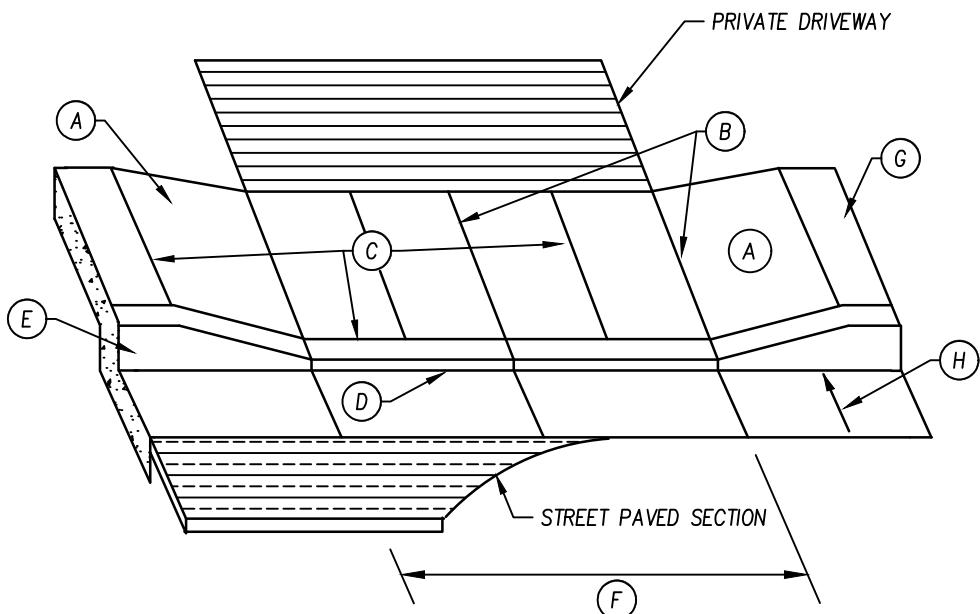
1. ALL WORK TO BE DONE, AND ALL MATERIAL SUPPLIED, SHALL CONFORM TO THE CALTRANS STANDARD SPECIFICATIONS.
2. STEEL REINFORCEMENT SHALL CONFORM TO THE CALTRANS STANDARD SPECIFICATIONS.
3. BROOM FINISH SHALL BE PARALLEL TO THE DIRECTION OF FLOW.
4. FLOW LINE ELEVATIONS MUST BE APPROVED BY CITY ENGINEER.

NO.	REVISION DATE	BY	VALLEY GUTTER	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS				ST-09



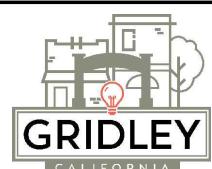
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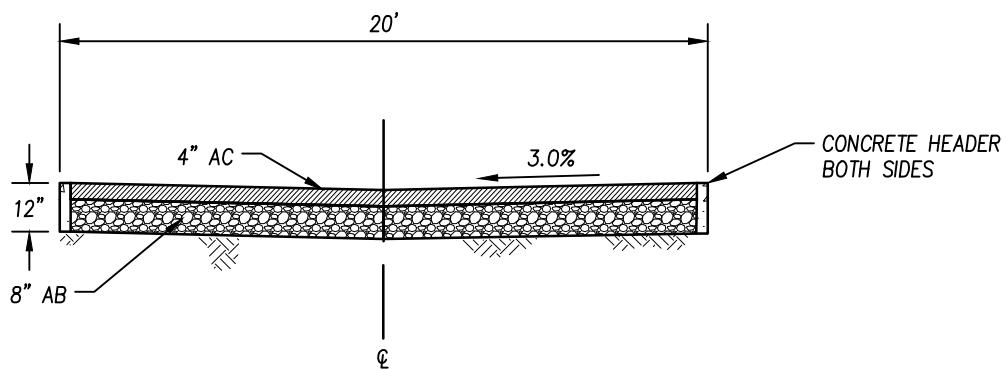
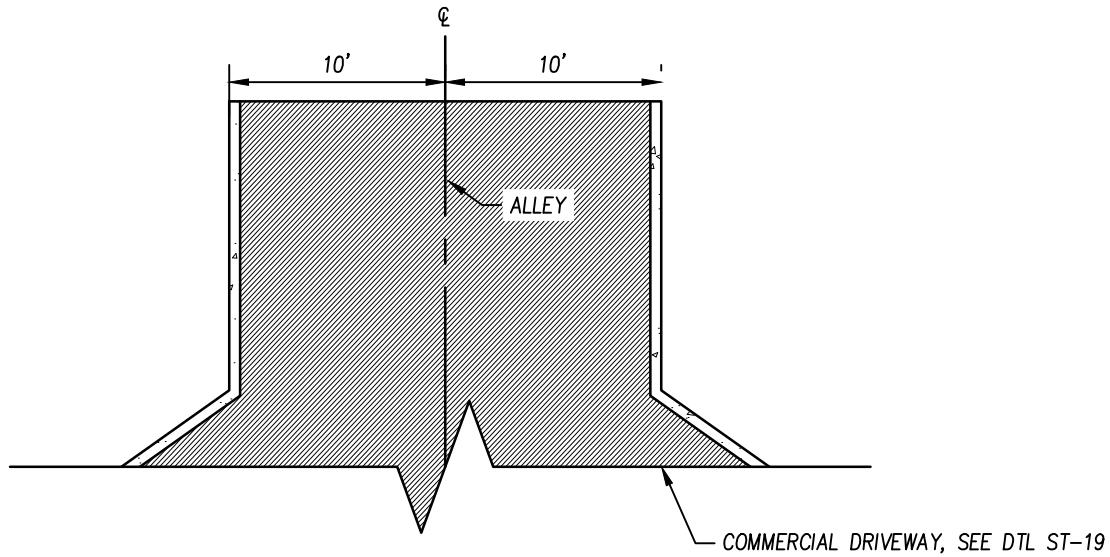
- A. SLOPE SHALL NOT EXCEED 7.5% FOR 6" CURB AND 5% FOR 8" CURB. MAX LENGTH SHOULD BE 15'.
- B. "TOOL JOINT" SEE DETAIL ST-08.
- C. SCORE MARKS EVERY 5' FOR SIDEWALK
- D. 1" HIGH LIP AT 45° BATTER.
- E. "A2"(ST-06) CURB AND GUTTER.
- F. DRIVEWAY WIDTH PER THE APPROVED PLAN. (MIN 24' AND MAX 40' FOR COMMERCIAL, MIN 12' AND MAX 24' FOR RESIDENTIAL)
- G. ADJACENT SIDEWALK.
- H. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX.



NOTES:

1. SIDEWALK CROSS GRADE THROUGH THE ENTIRE DRIVEWAY SHALL BE 1% MIN, 2% MAX.
2. FOR COMMERCIAL DRIVEWAY: SIDEWALK, APRON AND GUTTER PAN SHALL BE 6" THICK WITH NO.4, GRADE 60 REBAR ON 18" CENTER EACH WAY. USE 3" DOBIES (REBAR SPACERS) AT 3' INTERVALS. FOR RESIDENTIAL: WALK, APRON, AND GUTTER PAN SHALL BE 6" THICK NONREINFORCED. FOR COMMERCIAL AND RESIDENTIAL, SIDEWALK, APRON AND GUTTER PAN SHALL BE PLACED MONOLITHICALLY. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS.
3. BASE FOR CONCRETE SHALL BE CLASS 2, 3/4" AGGREGATE BASE, EITHER PROCESSED 6" THICK TO 95% RELATIVE COMPACTION.
4. AC PATCH ADJACENT TO GUTTER LIP SHALL CONFORM TO "ASPHALT CONCRETE" SECTION OF CALTRANS STANDARD SPECIFICATIONS.
5. FROM 8' TO 20' BACK OF SIDEWALK, RAISE PRIVATE PAVING/LANDSCAPING TO A MINIMUM HEIGHT OF THE HIGHEST TOP OF CURB ELEVATION AT THE DRIVEWAY.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
			 GRIDLEY CALIFORNIA
DRAWN BY:	J. GINNEVER		
CHECKED BY:	D. HARDEN		
SCALE:	NONE		
DATE:	2/2/26		ST-10
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			



NOTES:

1. ALLEY ENTRANCE SHALL BE DESIGNED AS A COMMERCIAL DRIVEWAY IN TERMS OF REBAR
2. TRANSITION FROM DRIVEWAY TO ALLEY SHALL BE MADE BETWEEN BACK OF WALK AND RIGHT OF WAY. VARIATION FROM THIS MAY REQUIRE DEDICATION OF ADDITIONAL RIGHT OF WAY FOR TRANSITION.
3. ALL CONCRETE TO BE "MINOR CONCRETE" AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
<b>ALLEY DETAIL</b>			
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS		<b>ST-11</b>	



TABLE 1

TRAFFIC INDEX FOR RESIDENTIAL STREETS	
NUMBER OF RESIDENTIAL UNITS SERVED	TRAFFIC INDEX
0-24	4.5
25-40	5.0
41-90	5.5
91-180	6.0
181-300	6.5
301-500	7.0
501-700	7.5
701-900	8.0

TABLE 2

TRAFFIC INDEX BY STREET CLASS	
LOCAL COMMERCIAL AND MINOR COLLECTOR	7.0
LOCAL INDUSTRIAL AND MAJOR COLLECTOR	8.0
ARTERIAL	9.0

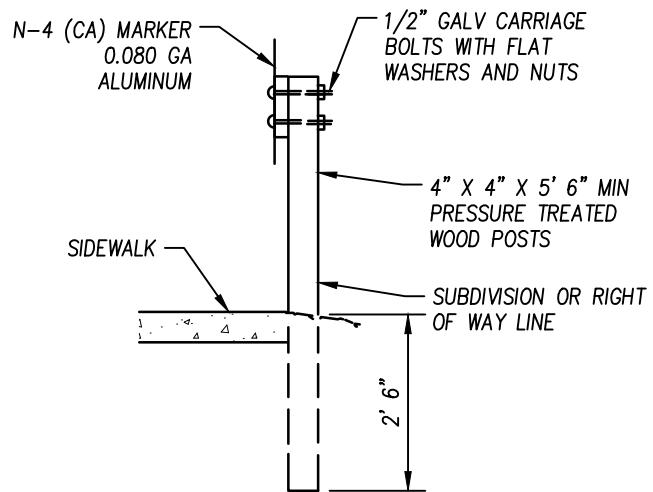
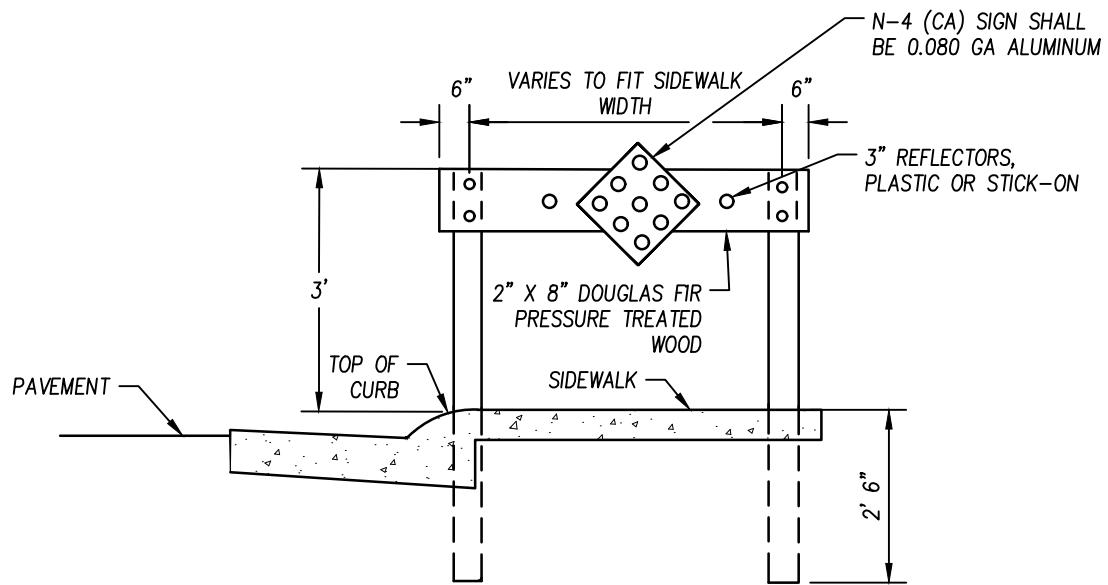
TABLE 3

STRUCTURAL PAVEMENT SECTIONS (INCHES OF AC OVER AB)					
T.I	R=5	R=10	R=15	R=20	12" LTB
4.5	4/8	4/8	4/8	4/8	4/6
5.0	4/8	4/8	4/8	4/8	4/6
5.5	4/9	4/8	4/8	4/8	4/6
6.0	4/12.5	4/11	4/9.5	4/9.5	4/6
6.5	4/14	4/12.5	4/11.5	4/11.5	4/8
7.0	4/16	4/14.5	4/13.5	4/13.5	4/8
7.5	5/16	5/14.5	5/13.5	5/13.5	5/9
8.0	5/17.5	5/16	5/15	5/15	5/10
8.5	5/20	5/18	5/16.5	5/16.5	5/12
9.0	6/20	6/18	6/16.5	6/16.5	6/12
9.5	6/22	6/20	6/18.5	6/18.5	6/16
10.0	8/22	8/20	6/20	6/20	6/16

- EVALUATING WHETHER A STREET SEGMENT SERVES A GIVEN RESIDENTIAL UNIT IS BASED ON VEHICLES FROM THE RESIDENCE BEING LIKELY TO UTILIZE THE SEGMENT DURING THE MORNING OR EVENING PEAK TRAFFIC HOURS, AS DETERMINED BY A REASONABLE TRAFFIC DISTRIBUTION ASSUMED FOR THE AREA.
- IN THE ABSENCE OF TRAFFIC PROJECTIONS FOR MIXED-USE OR NON-RESIDENTIAL AREAS, TABLE 1 MAY BE USED AS A GUIDE FOR DETERMINING THE TRAFFIC INDEX.
- TABLE 2 IS TO BE USED ONLY WHEN THERE IS NO OTHER INFORMATION AVAILABLE UPON WHICH TO BASE A TRAFFIC INDEX CALCULATION. THE TRAFFIC INDICES SHOWN ARE APPROPRIATE WHERE HIGH VOLUMES OF HEAVY VEHICLES ARE EXPECTED. THE CITY SHALL MAKE THE FINAL DETERMINATION AS TO THE APPROPRIATENESS OF THE ASSUMPTIONS AND METHODOLOGY USED FOR TRAFFIC INDEX DETERMINATION.
- IN CERTAIN CASES, SUB-BASE STABILIZATION BY MEANS OF LIME TREATMENT (LTB) FOR CLAY SOIL OR THE CEMENT TREATMENT OF BASE MATERIALS MAY BE APPROVED. WHEN APPROVED, A MINIMUM OF 12" OF SOIL OR BASE IS TO BE TREATED A MAXIMUM R-VALUE OF 30 IS TO BE APPLIED TO THE STRUCTURAL SECTION CALCULATIONS. THE MINIMUM THICKNESS OF AGGREGATE BASE TO BE USED BETWEEN THE ASPHALT AND TREATED SUB-BASE IS 6". THE CITY WILL REQUIRE SOILS SAMPLING AND TESTING OF TREATED BASES OR SUB-BASES TO ENSURE THAT ADEQUATE STABILIZATION HAS BEEN PROVIDED. LIME TREATMENT OF SUB-GRADE MAY BE REQUIRED IF CONSTRUCTION OCCURS DURING WET MONTHS OF THE YEAR.
- THE MINIMUM STRUCTURAL SECTION IS 4" OF ASPHALT OVER 8" OF AGGREGATE BASE. ALLEYS PROVIDING ACCESS TO FIRE STATIONS ARE TO HAVE STRUCTURAL SECTIONS WITH A MINIMUM OF 8" PCC AND OVER 8" AB AND WILL REQUIRE REINFORCING STEEL (NO.4 BARS @ 24"OC, TYP).
- THE INFORMATION PROVIDED IN TABLE 3 IS BASED ON THE CALTRANS HIGHWAY DESIGN MANUAL. THE DESIGN ENGINEER MAY REFERENCE THIS MANUAL TO VERIFY THAT THE STRUCTURAL SECTION IS ADEQUATE. STRUCTURAL SECTIONS MAY BE DETERMINED BY INTERPOLATION OF THE DATA PROVIDED IN THE TABLE.

NO.	REVISION DATE	BY	<b>MINIMUM STRUCTURAL SECTION</b>	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			<b>CITY OF GRIDLEY</b> DEPARTMENT OF PUBLIC WORKS	<b>ST-12</b>



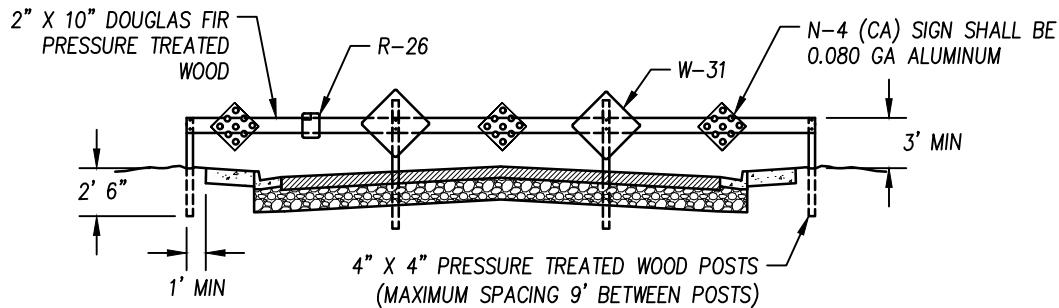


NOTES:

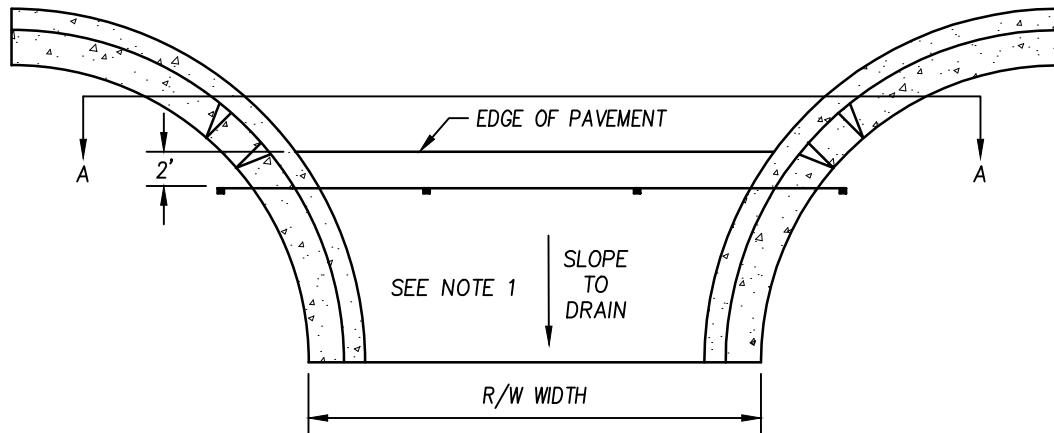
1. SIDEWALK BARRICADES SHALL BE ERECTED WHERE SATISFACTORY PROVISIONS CANNOT BE MADE FOR PEDESTRIAN TO CONTINUE BEYOND THE TERMINUS OF SIDEWALK.
2. ALL EXPOSED WOOD SURFACES SHALL BE PAINTED WITH TWO (2) COATS OF WHITE PAINT CONFORMING TO "PAINT" SECTION OF CALTRANS STANDARD SPECIFICATIONS.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
<b>TEMPORARY SIDEWALK BARRICADE</b>			
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS		ST-13	





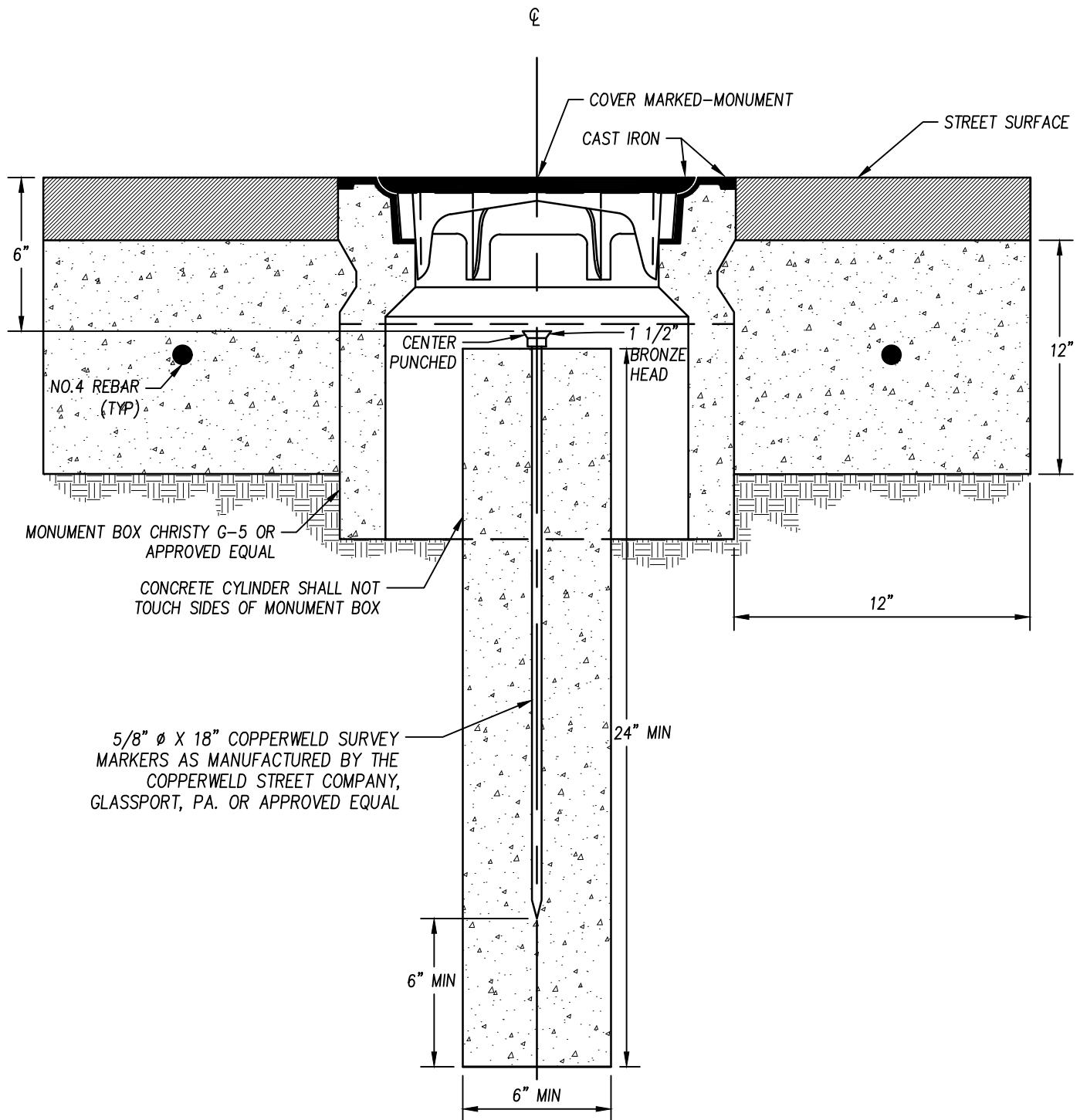
SECTION A-A



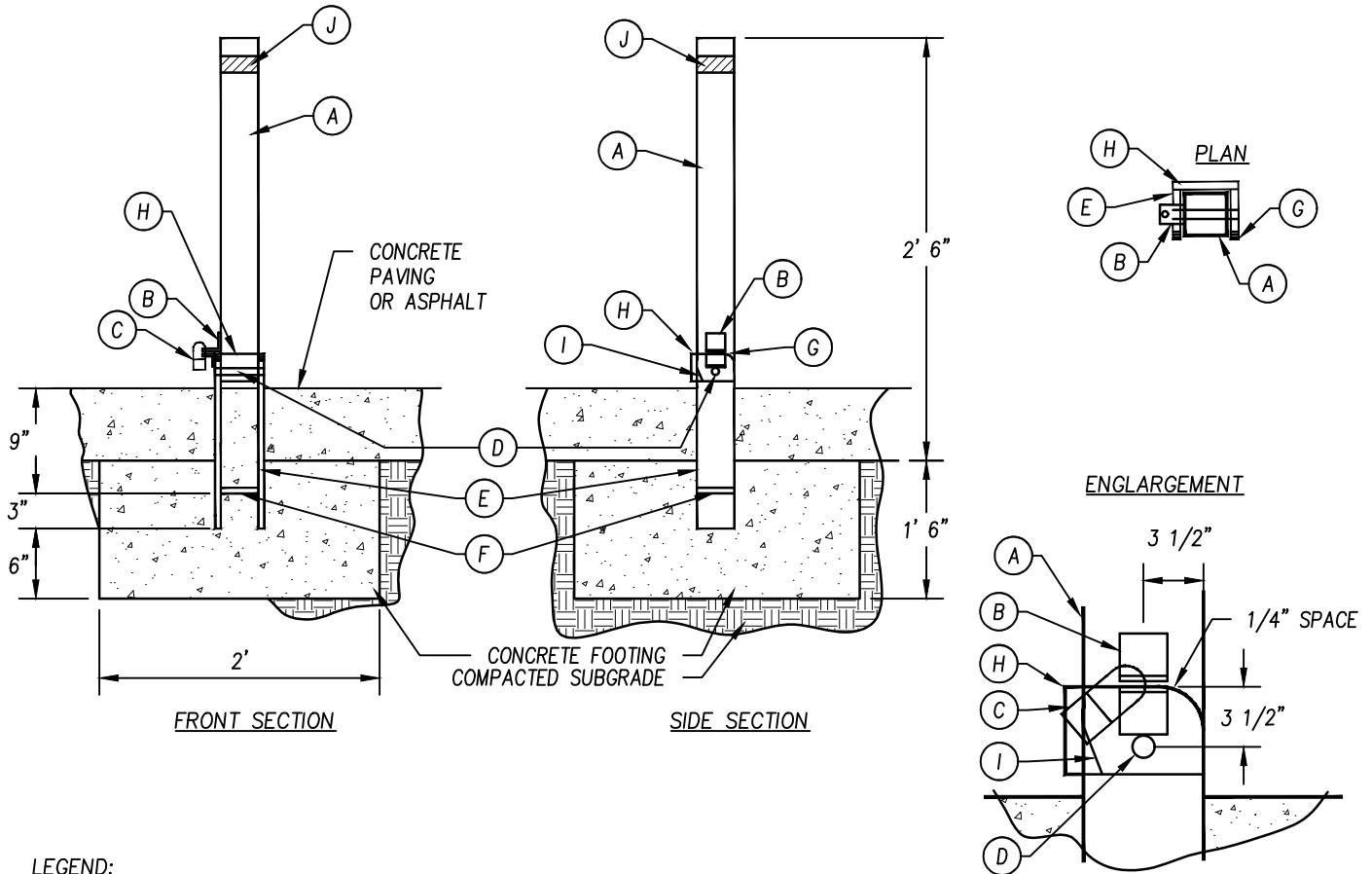
NOTES:

1. CLASS 2 AGGREGATE BASE MATERIAL PER ST-20
2. SIGNS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE CALIFORNIA MUTCD.
3. ALL EXPOSED WOOD SURFACES SHALL BE PAINTED WITH TWO (2) COATS OF WHITE PAINT CONFORMING TO "PAINT" SECTION OF CALTRANS STANDARD SPECIFICATIONS.
4. ALL FASTENED POINTS SHALL USE 1/2" DIAMETER GALVANIZED CARRIAGE BOLTS WITH FLAT WASHERS AND NUTS. (DEFORM THREADS TYP)
5. TEMPORARY CUL-DE-SACS MAY BE APPROVED BY THE CITY ENGINEER IN LIEU OF DEAD END STREETS WHEN SUBDIVISION IS ADJOINING LANDS.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
<b>STUB STREET BARRICADE</b>			
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS		ST-14	



NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			
<b>BOXED SURVEY MONUMENT</b>		<b>CITY OF GRIDLEY</b> DEPARTMENT OF PUBLIC WORKS	
		<b>ST-15</b>	



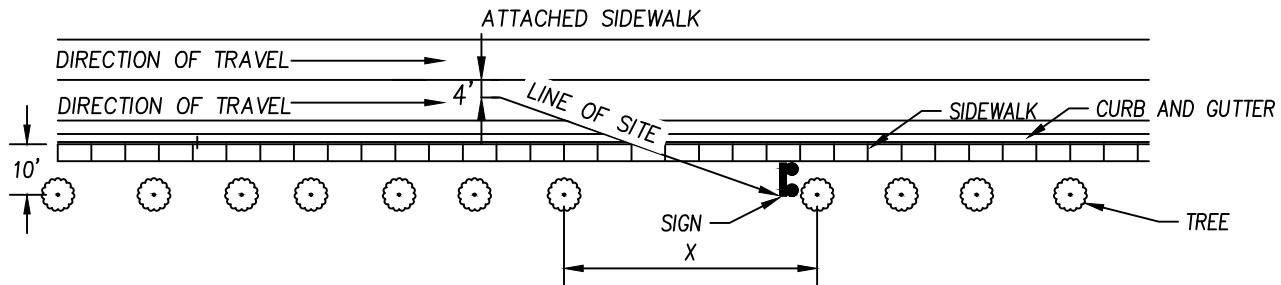
LEGEND:

- A. 3 1/2" OD 1/4" WALL STEEL TUBE WITH CAP WELDED ON TOP, 3/4" HOLES FOR SWIVEL ROD. EASE ALL EDGES OF STEEL TUBE.
- B. 1 1/2" X 1 1/2" ANGLE IRON (2) WELDED TO TUBE AND BASE. PLACE 1/2" HOLE DRILLED 1/4" FROM END OF ANGLE IRON. ANGLE IRON ON BASE SIZE AS NECESSARY TO EQUAL LENGTH OF ANGLE IRON ON TUBE.
- C. PADLOCK, TO BE PROVIDED BY CITY.
- D. 5/8" DIA. STEEL SWIVEL ROD, WELD SWIVEL ROD TO SIDE PLATES.
- E. 3/8" X 16" X 4" STEEL BASE PLATE WITH 1 1/2" RADIUS CORNERS. EASE ALL EDGES.
- F. 3/8" STEEL BRACE. FILET WELD BOTH SIDES TO BASE PLATES.
- G. 1 1/2" RADIUS CORNERS, TYP.
- H. 4" X 4" X 3/8" STEEL BACK PLATE WELDED TO BASE PLATE.
- I. FISH MOUTH GRIND AT BOTTOM BACK CORNER OF TUBE.
- J. PLACE 2" WHITE REFLECTIVE TAPE.

NOTES:

1. ALL TUBING SHALL BE BLACK STEEL PIPE.
2. ALL JOINTS SHALL BE WELDED IN ACCORDANCE WITH CA STATE STANDARD SPECIFICATIONS FOR WELDING STRUCTURAL STEEL AND GROUND SMOOTH.
3. ALL PARTS (EXCEPT PADLOCK) SHALL BE PAINTED WITH TWO COATS ZINC CHROMATE PRIMER AND TWO COATS EXTERIOR ENAMEL OR FACTORY COATED. COLOR: YELLOW
4. BOLLARD SHALL BE INSTALLED SUCH THAT IT LAYS FLAT WHEN FOLDED.
5. CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
			<b>COLLAPSIBLE BOLLARD</b>
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			<b>ST-16</b>
			<b>CITY OF GRIDLEY</b> DEPARTMENT OF PUBLIC WORKS



NOTES:

1. THESE ARE MINIMUM DISTANCES FOR TREES ALONG ROADWAYS.
2. DISTANCE FROM BACK OF CURB TO CENTER OF TREE IS TO BE GREATER THAN OR EQUAL TO 10'

SPEED MPH	MINIMUM CLEARANCE FOR LINE OF SITE "X"
25	75-FT
30	90-FT
40	120-FT
50	150-FT
60	180-FT

NO.	REVISION DATE	BY
DRAWN BY:	J. GINNEVER	
CHECKED BY:	D. HARDEN	
SCALE:	NONE	
DATE:	2/2/26	

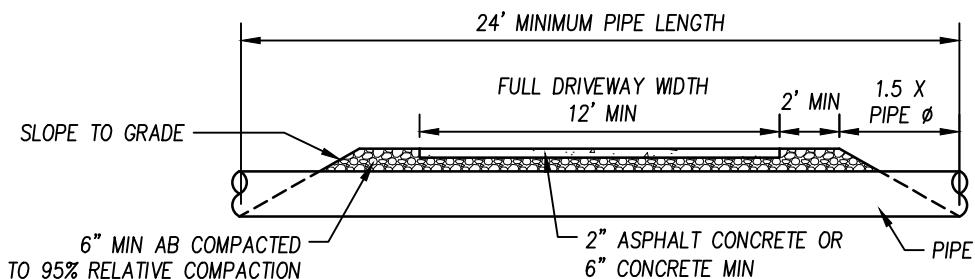
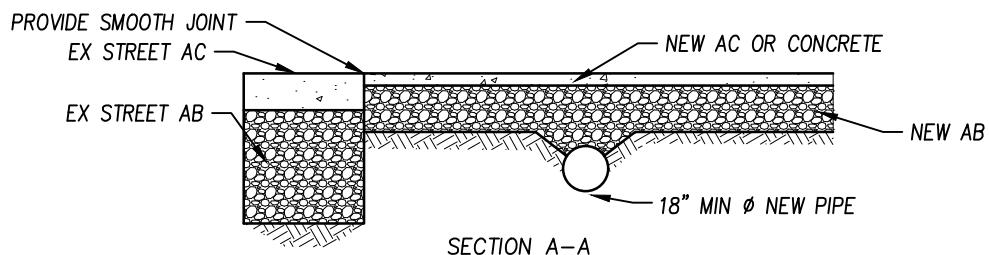
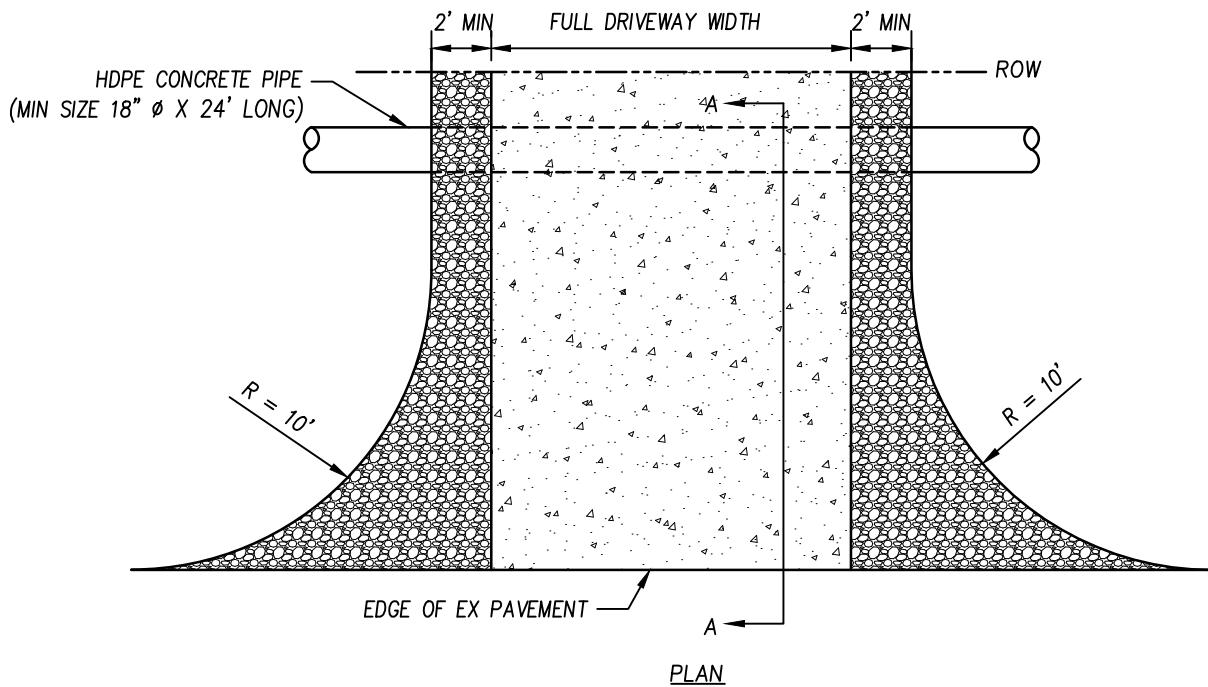
## LANDSCAPE SIGHT DISTANCE

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

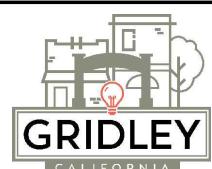
ST-17

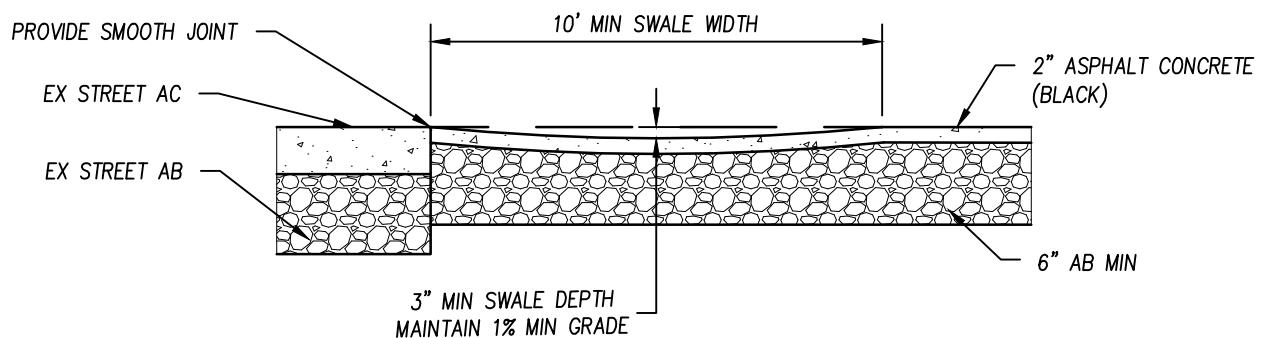
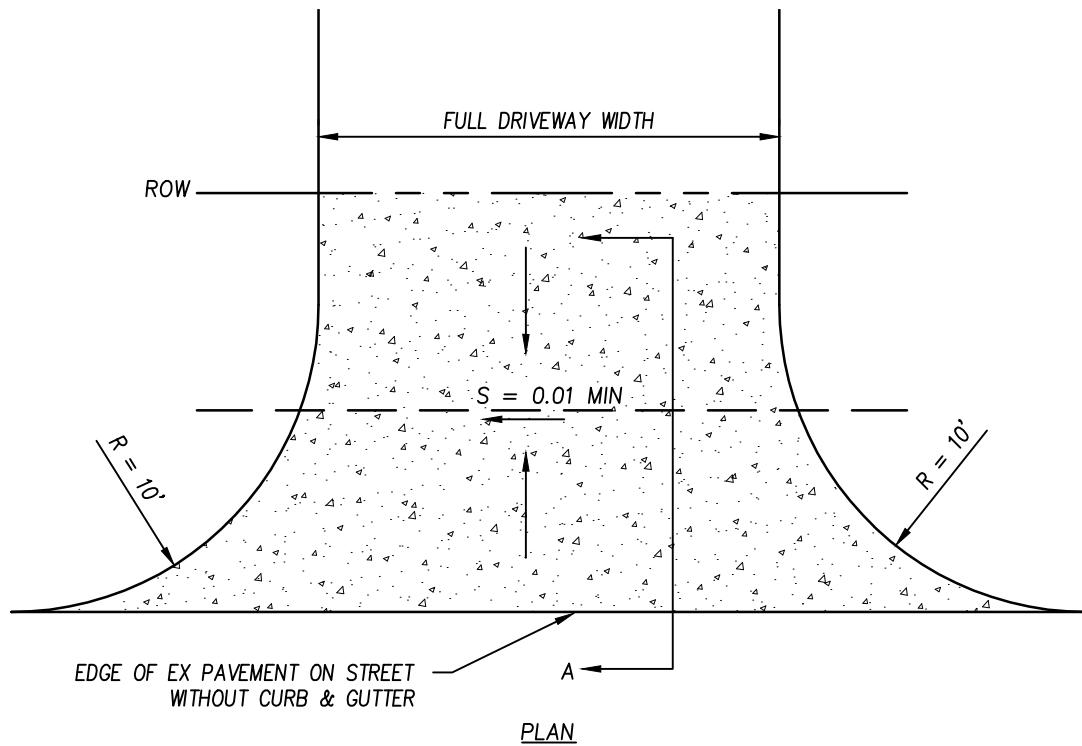


TYPICAL SECTION

NOTES:

1. REFER TO ST-20, ST-21 AND DR-10 FOR BACKFILL REQUIREMENTS.
2. "MINOR CONCRETE" AS DEFINED IN CALTRANS STANDARD SPECIFICATION
3. CULVERT PIPE SHALL HAVE 12" OF MINIMUM COVER. ANY LESS REQUIRES APPROVAL FROM CITY ENGINEER.
4. CMP ALLOWED WITH APPROVAL FROM CITY ENGINEER.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER		
CHECKED BY:	D. HARDEN		
SCALE:	NONE		
DATE:	2/2/26		
<b>STANDARD DRIVEWAY CULVERT</b>			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			ST-18



SECTION A-A

NO.	REVISION DATE	BY
DRAWN BY: J. GINNEVER		
CHECKED BY: D. HARDEN		
SCALE: NONE		
DATE: 2/2/26		

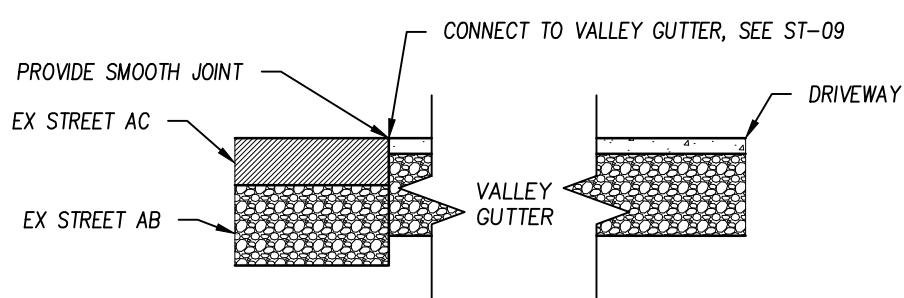
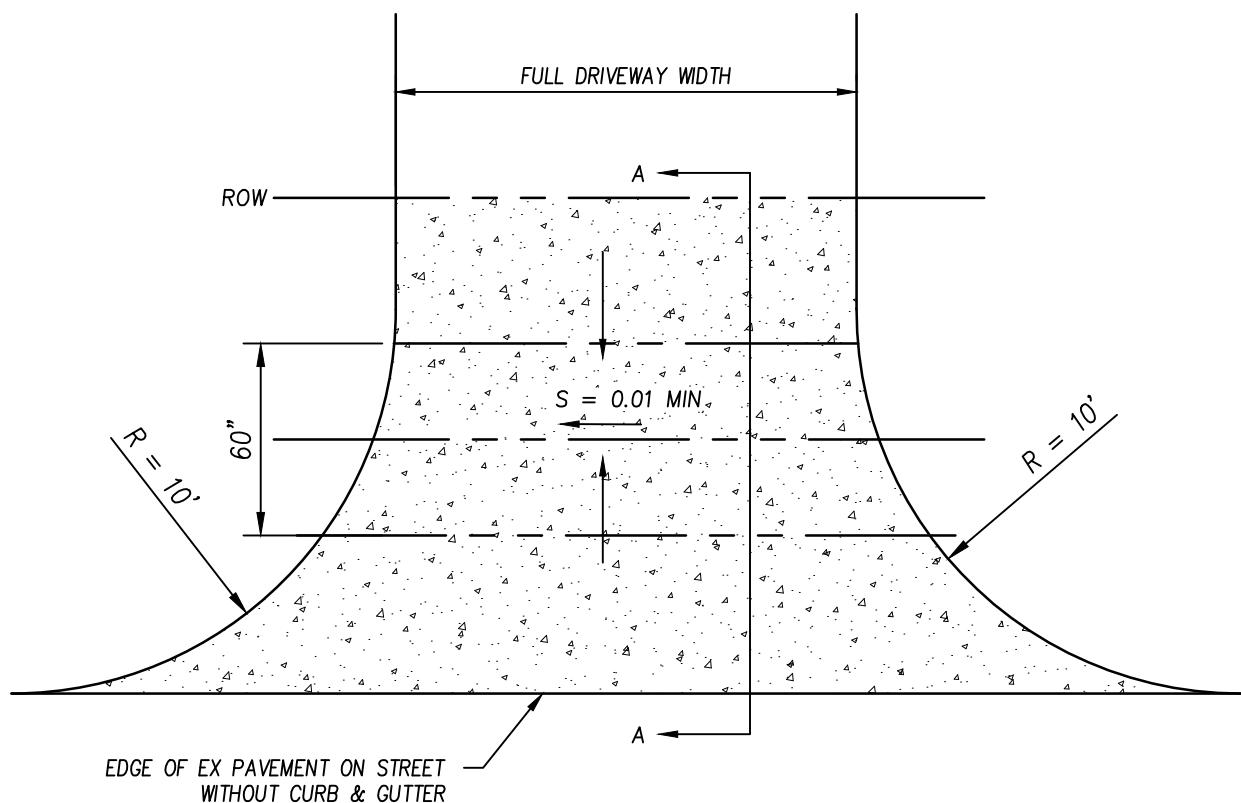
## DRIVEWAY APPROACH SWALE

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



ST-31

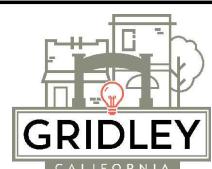


NO.	REVISION DATE	BY
DRAWN BY: J. GINNEVER		
CHECKED BY: D. HARDEN		
SCALE: NONE		
DATE: 2/2/26		

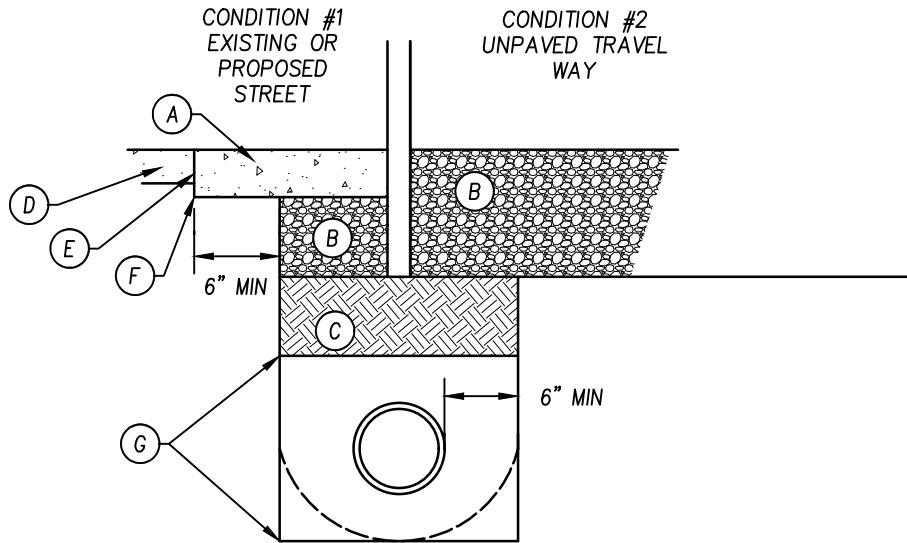
## DRIVEWAY APPROACH VALLEY GUTTER

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



ST-19



LEGEND:

- A. ASPHALT CONCRETE PATCH OR CONCRETE OR ASPHALT CONCRETE PAVEMENT SECTION PER APPROVED PLANS:  
LOCAL STREETS: 2" AC  
COLLECTOR STREETS: 2" AC  
COMMERCIAL AND ARTERIAL STREETS: 3" AC PLACED IN TWO LIFTS  
INDUSTRIAL STREETS: 3" AC PLACED IN TWO LIFTS
- B. CLASS 2 AGGREGATE BASE:  
UNPAVED TRAVEL WAY: 6" AB AT 95% RELATIVE COMPACTION  
LOCAL STREETS: 6" AB AT 95% RELATIVE COMPACTION  
COLLECTOR STREETS: 8" AB AT 95% RELATIVE COMPACTION  
COMMERCIAL AND ARTERIAL STREETS: 8" AB AT 95% RELATIVE COMPACTION  
INDUSTRIAL STREETS: 12" AB AT 95% RELATIVE COMPACTION
- C. IF MINIMUM COVER IS NOT MET OR THERE IS LESS THAN 1' BETWEEN CROSSING UTILITIES, SLURRY BACKFILL SHALL BE USED. SEE DR-10 FOR STORM DRAIN, W-15 & W-16 FOR WATER PIPE, AND SS-05 FOR SANITARY SEWER PIPE, OF THESE CONSTRUCTION STANDARDS
- D. EXISTING STREET PAVEMENT
- E. TACK COAT ON ALL VERTICAL PAVEMENT SAWCUTS
- F. TYPICAL EACH SIDE OF TRENCH IN EXISTING STREET
- G. FOR PIPE EMBEDMENT SEE DR-10 FOR STORM DRAIN, W-15 & W-16 FOR WATER PIPE, AND SS-05 FOR SANITARY SEWER PIPE, OF THESE CONSTRUCTION STANDARDS

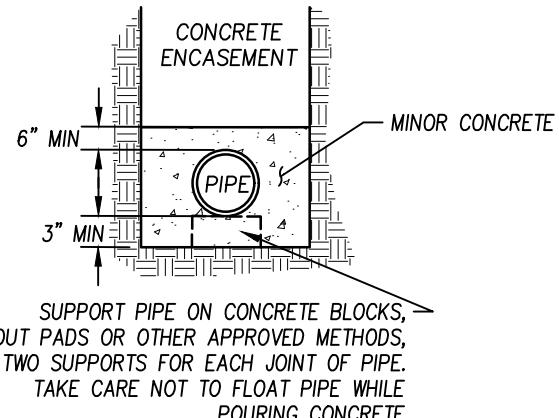
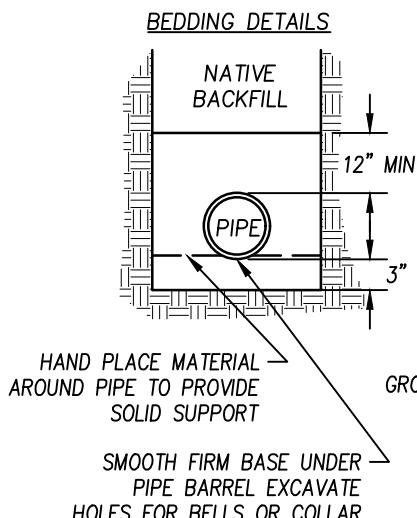
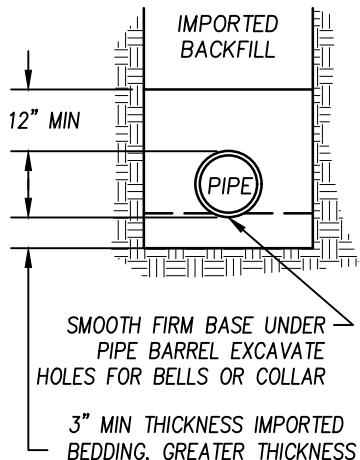
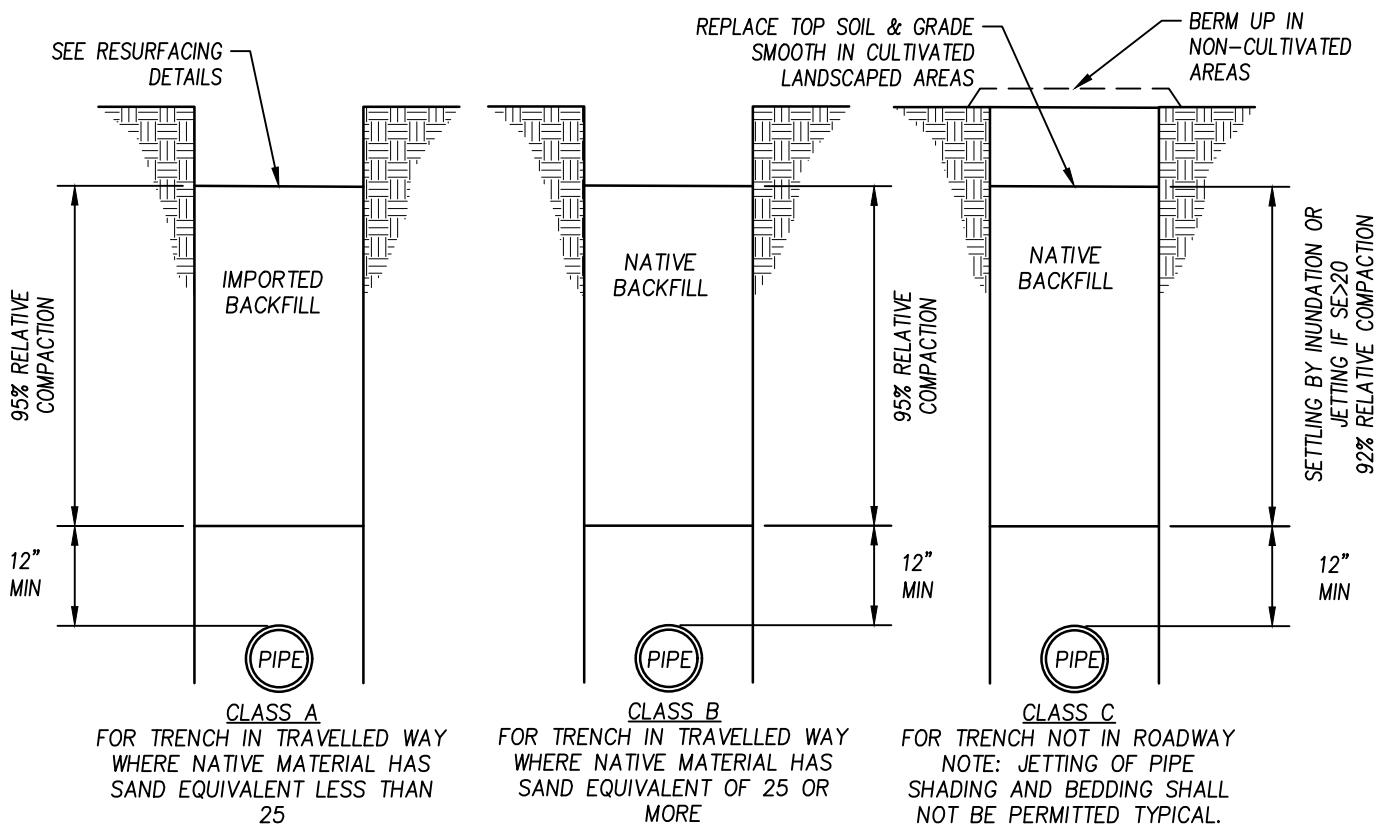
NOTES:

1. FOR TRENCH WIDTH SEE DR-10 FOR STORM DRAIN, W-15 & W-16 FOR WATER PIPE, AND SS-05 FOR SANITARY SEWER PIPE, OF THESE CONSTRUCTION STANDARDS.
2. EXISTING PAVEMENT SHALL BE NEATLY CUT TO A STRAIGHT VERTICAL LINE.
3. AGGREGATE BASE SHALL RECEIVE A "PRIME COAT" OF SC-250 LIQUID ASPHALT OR APPROVED EQUAL. ALL ASPHALT TRENCH PATCHES SHALL RECEIVE A FOG SEAL CONFORMING TO "ASPHALTIC EMULSIONS" OF CALTRANS STANDARD SPECIFICATIONS.

NO.	REVISION DATE	BY	TRENCH AND PAVING BACKFILL AND EMBEDMENT	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26		CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	ST-20



## BACKFILL DETAILS



### NOTES:

1. IMPORT BEDDING MATERIAL SHALL BE CLEAN SAND, OR 3/4" MAXIMUM GRAVEL UNIFORMLY GRADED WITH A MINIMUM SAND EQUIVALENT OF 25, OR CLASS 2 AGGREGATE BASE
2. IMPORTED BACKFILL SHALL BE CLEAN SAND OR STREAM GRAVEL WHICH IS REASONABLY WELL GRADED FROM COARSE TO FINE WITH A MAXIMUM SIZE OF 1 1/2" AND NOT LESS THAN 10% PASSING A NO.4 MESH SCREEN AND A MINIMUM SAND EQUIVALENT OF 25, OR CLASS 2 AGGREGATE BASE
3. ALL BEDDING AND BACKFILL SHALL BE COMPAKTED TO 95% RELATIVE COMPAKCTION
4. NATIVE BEDDING AND BACKFILL SHALL HAVE A SAND EQUIVALENT OF 25 OR GREATER AND SHALL BE 3/4" MAXIMUM SIZE
5. THE TRENCH WIDTH SHALL BE A MINIMUM OF THE PIPE OD + 12" AND A MAXIMUM OF THE PIPE OD + 24"

NO.	REVISION DATE	BY
DRAWN BY: J. GINNEVER		
CHECKED BY: D. HARDEN		
SCALE: NONE		
DATE: 2/2/26		

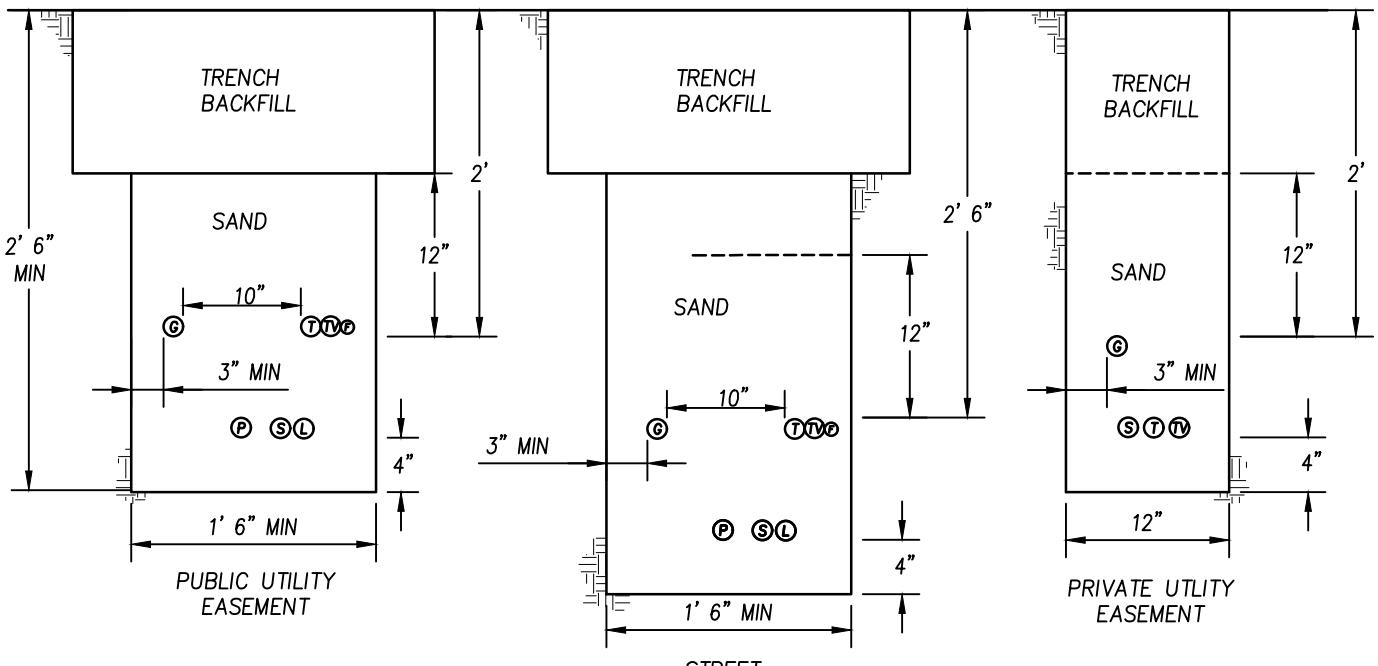
## TRENCH BEDDING AND BACKFILL

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



ST-21



LEGEND

Ⓐ - GAS (PG&E)

Ⓑ - TELEVISION

Ⓒ - PRIMARY ELECTRIC

Ⓓ - FIRE ALARM

Ⓔ - SECONDARY ELECTRIC

Ⓛ - STREET LIGHT

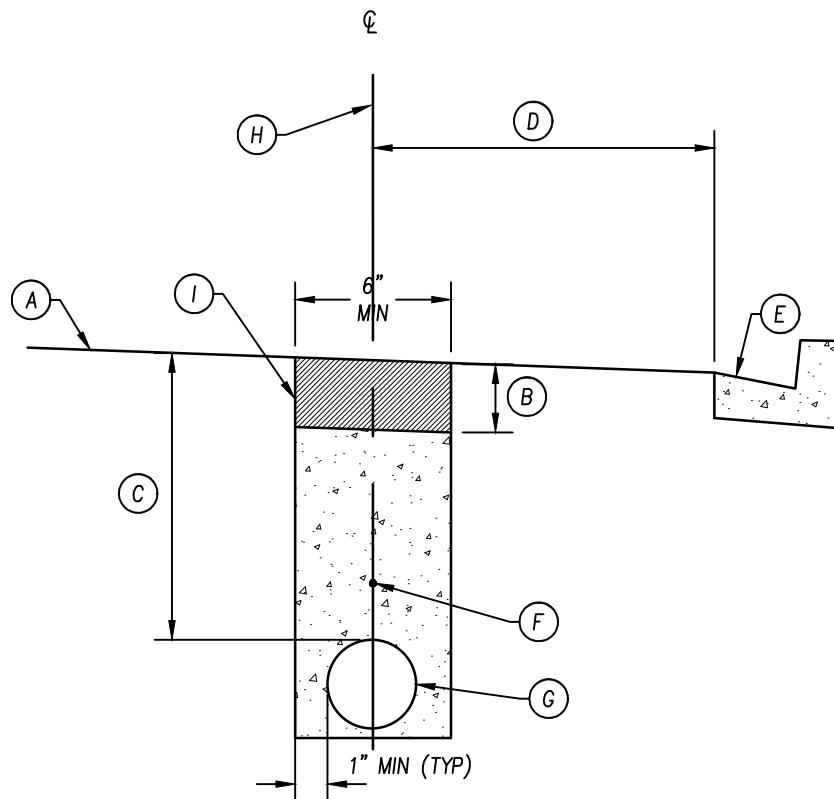
Ⓣ - TELEPHONE

NOTES:

1. BACKFILL IN PARKWAY OR STREET INSTALLATIONS SHALL BE CLASS "A" OR "B" AS REQUIRED BY THE PUBLIC WORKS DEPARTMENT.
2. ALL ELECTRIC CONDUCTORS PLACED UNDERGROUND SHALL BE INSTALLED IN APPROVED ELECTRICAL CONDUIT:
  - A. PLASTIC CONDUIT SHALL BE NEMA TC-6 PVC (APPROVED FOR DIRECT BURIAL INSTALLATION) (P&C)
  - B. ALL CONDUITS INSTALLED SHALL INCLUDE PULL STRINGS
3. WHERE PRACTICAL, LOCATE GAS AND ELECTRIC SERVICES AT ALTERNATE LOT LINES TO MINIMIZE CONFLICTS.
4. DEPTHS AND SEPARATION SHOWN ARE DESIRABLE MINIMUMS. VARIANCES MAY BE REQUIRED.
5. GAS FACILITIES MUST ADHERE TO G0112-F
  - A. WHERE 10" SEPARATION CANNOT BE OBTAINED IN AN 18" WIDE TRENCH SEPARATION MAY BE REDUCED TO NOT LESS THAN 6" INSTEAD OF INCREASING THE TRENCH WIDTH.
  - B. WHERE PRIMARY AND GAS ARE NOT INVOLVED SECONDARY MAY OCCUPY POSITION NORMALLY OCCUPIED BY GAS.
6. AT NO TIME WILL SANITARY SEWER LINES BE ALLOWED IN TRENCH OCCUPIED BY PRIMARY OR SECONDARY.
7. EACH UTILITY COMPANY MAY HAVE ONE OR MORE CONDUITS OR CONDUCTORS IN A TRENCH.
8. DEPTHS VARY ACCORDING TO CONDUIT SIZES AND LATERAL INTERFERENCE.
9. ALL CONDUCTORS OR CONDUITS SHALL HAVE 3" MINIMUM CLEARANCE FROM TRENCH SIDEWALLS.

NO.	REVISION DATE	BY	JOINT TRENCH CONFIGURATIONS FOR UTILITY COMPANIES	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	ST-22





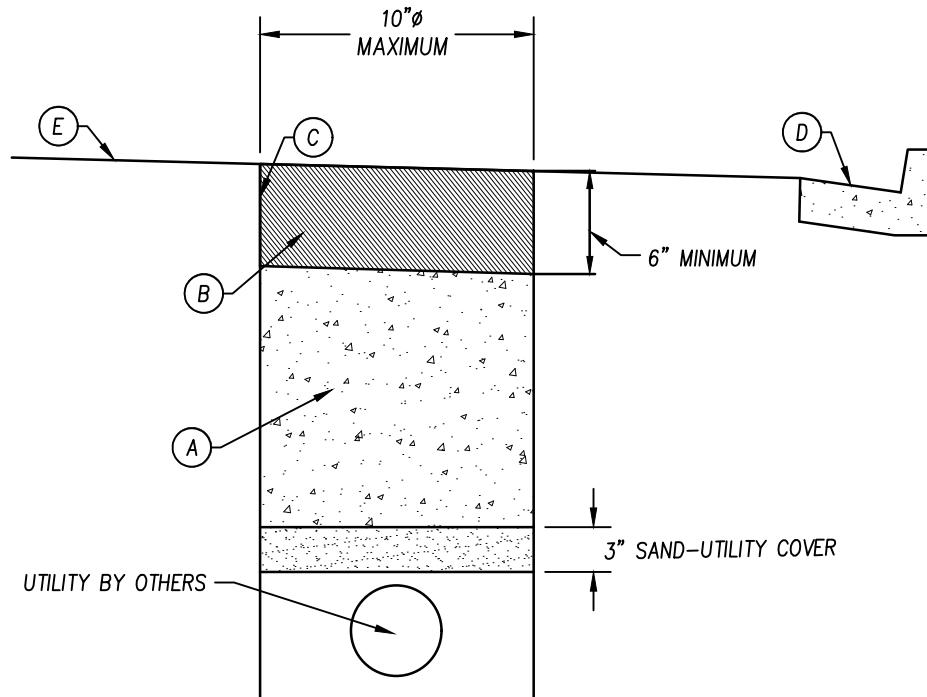
LEGEND:

- A. SURFACE OF EXISTING STREET SECTION
- B. 3" THICK ASPHALT CONCRETE HMA TYPE A 3/4" MIX IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS (93% RELATIVE COMPACTION)
- C. PIPE COVER PER UTILITY CO.
- D. DISTANCE VARIES. IF LESS THAN 3', THEN CONTRACTOR IS REQUIRED TO EDGE GRIND FROM LIP OF GUTTER (2" DEEP) TO INSIDE LIMIT LINE OF TRENCH
- E. EXISTING CURB AND GUTTER
- F. "MINOR CONCRETE" CONFORMING TO THE PROVISIONS IN CALTRANS STANDARD SPECIFICATIONS, WITH FINE AGGREGATE (PEA GRAVEL MIX). CONCRETE SHALL BE FLOW-ABLE AT DISCRETION OF CITY ENGINEER.
- G. CONDUIT AS SPECIFIED
- H. CENTER LINE OF LANE STRIPE
- I. PLACE BINDER (TACK COAT) ON ALL SURFACES PRIOR TO PAVING PER SECTION 39 OF CALTRANS STANDARD SPECIFICATIONS

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF STRIPING AND LEGENDS (AFFECTION BY TRENCHING) WITH THERMOPLASTIC MATERIAL.
2. ALL EXCAVATED AREAS IN THE PAVEMENT SHALL BE BACKFILLED, EXCEPT FOR THE TOP 3" BY THE END OF EACH WORK DAY. THE TOP 3" SHALL BE PLACED WITHIN 3 WORKING DAYS AFTER TRENCHING. DELINEATORS SHALL BE PLACED ON TEN FOOT CENTERS, AND WITHIN 1' OF EACH SIDE OF DRIVEWAYS IN THE INTERIM. REFER TO REQUIRED TRAFFIC CONTROL PLANS FOR TRANSITION LOCATIONS.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
<b>ROCK WHEEL TRENCH</b>			
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS		ST-23	



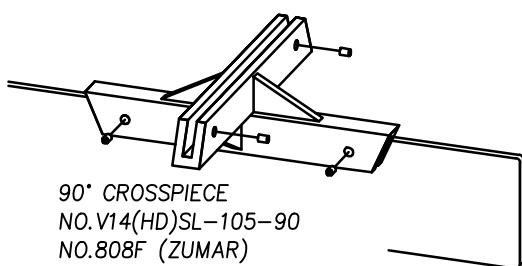
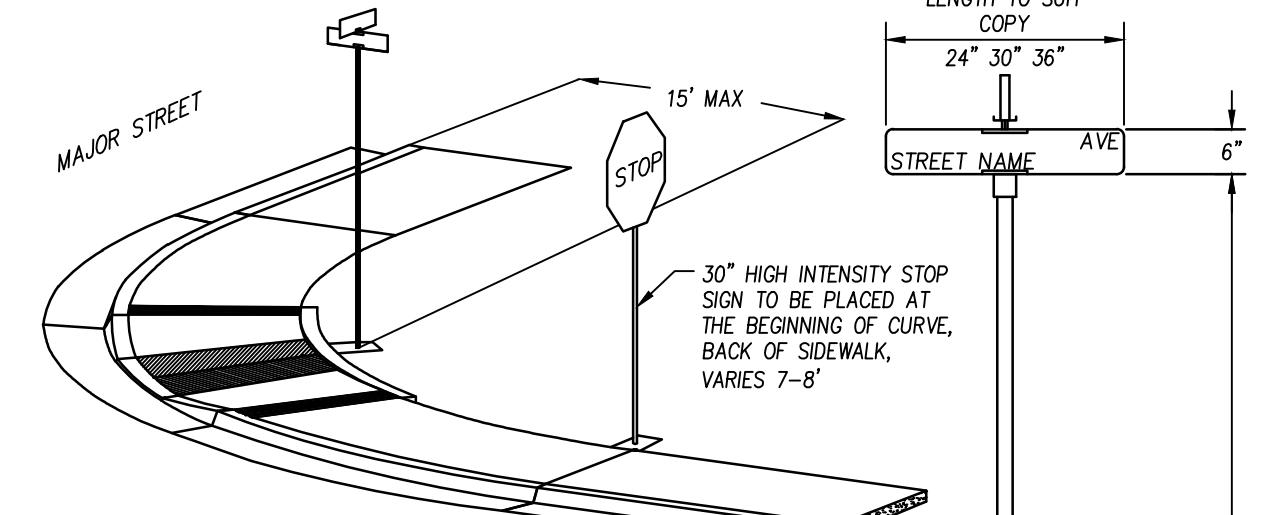
LEGEND:

- A. "MINOR CONCRETE" CONFORMING TO THE PROVISIONS IN CALTRANS STANDARD SPECIFICATIONS "CONCRETE", WITH FINE AGGREGATE (PEA GRAVEL MIX)
- B. 1/2" ASPHALT CONCRETE HMA TYPE A, 3/4" MIX (93% RELATIVE COMPACTION).
- C. PLACE BINDER (TACK COAT) ON ALL SURFACES PRIOR TO PAVING PER SECTION 39 OF CALTRANS STANDARD SPECIFICATIONS
- D. EXISTING CURB AND GUTTER
- E. SURFACE EXISTING STREET SECTION (PAVEMENT)

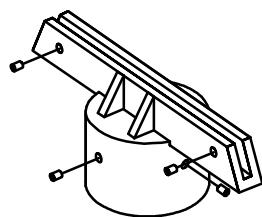
NOTES:

1. ASPHALT CONCRETE ROADWAY SURFACE POTHOLE SHALL BE SAW CUT OR JACKHAMMERED IN A UNIFORM FASHION. FOR PORTLAND CEMENT CONCRETE ROADWAYS, BRING CONCRETE BACKFILL TO SURFACE, AND FINISH WITH MEDIUM BROOM FINISH.
2. MAXIMUM POTHOLE SIZE SHALL BE 10" DIAMETER. SHOULD POTHOLE SIDEWALL CAVE-IN OCCUR DURING JET-VAC EXCAVATION ADDITIONAL EXCAVATION MAY BE REQUIRED (AT THE DISCRETION OF THE CITY ENGINEER).
3. REPLACE ALL PAVEMENT MARKINGS AND THERMOPLASTIC LEGENDS THAT WERE DAMAGED.
4. POTHOLE EXCAVATION MUST BE TEMPORARILY BACKFILLED SAME DAY AS EXCAVATION AND PERMANENTLY WITHIN SEVEN CALENDAR DAYS.
5. TEMPORARY STEEL COVERS ARE REQUIRED WHEN POTHOLING IS LOCATED WITHIN THE TRAVEL LANES, WHEN OPEN TO TRAFFIC.

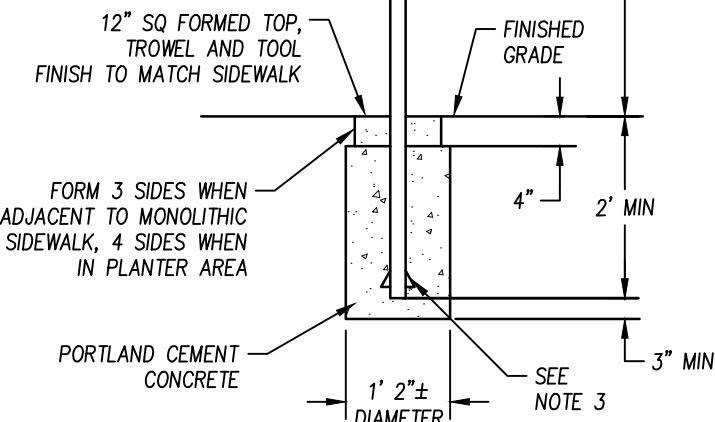
NO.	REVISION DATE	BY	POTHOLE RECONSTRUCTION	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	ST-24



CAP & CROSSPIECE SET SCREWS 5/16"-18 X 1/4  
STEEL PLATED SOCKET HD. NO.V14(HD)1105



CAP FOR 2" I.D. PIPE  
NO.V14(HD)SL-107.2C  
NO.808F (ZUMAR)



NOTES:

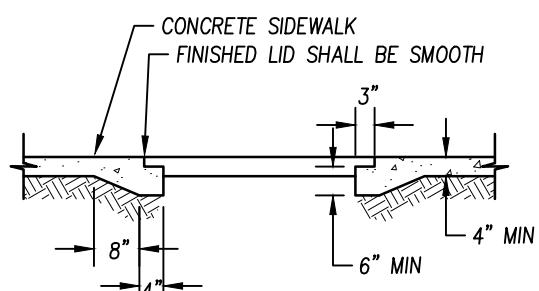
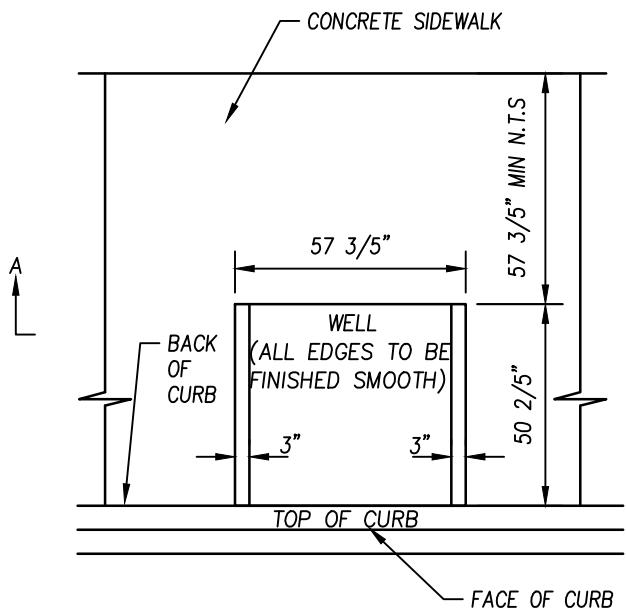
1. SIGN LOCATION TO BE DETERMINED BY THE CITY ENGINEER.
2. NAME PLATES & MOUNTING ASSEMBLIES TO MEET THE REQUIREMENTS OF THE CITY ENGINEER.
3. FLARE THE BOTTOM OF PIPE TO PREVENT TURNING.
4. PLATE COLOR SHALL BE WHITE ON GREEN & SHALL BE REFLECTIVE.
5. REFLECTIVE LETTERS TO BE 4" FOR NAME, AND 2" FOR ST., CT., AVE., ETC.
6. 0.080" ALUMINUM PLATE

NOTE:

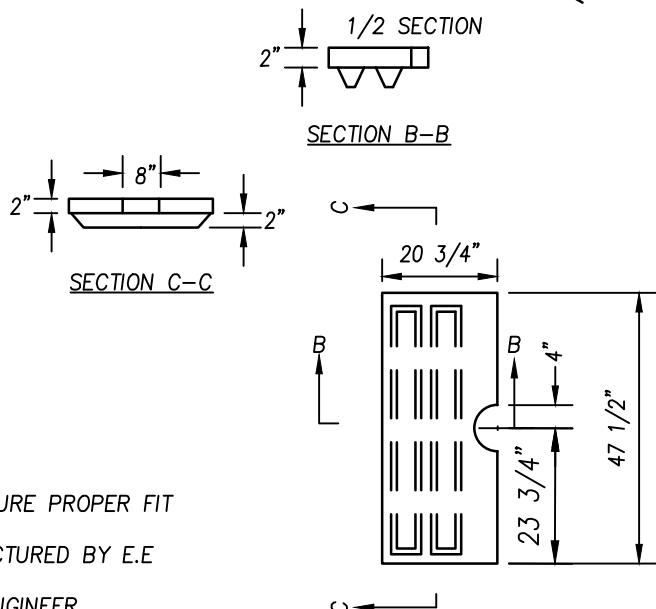
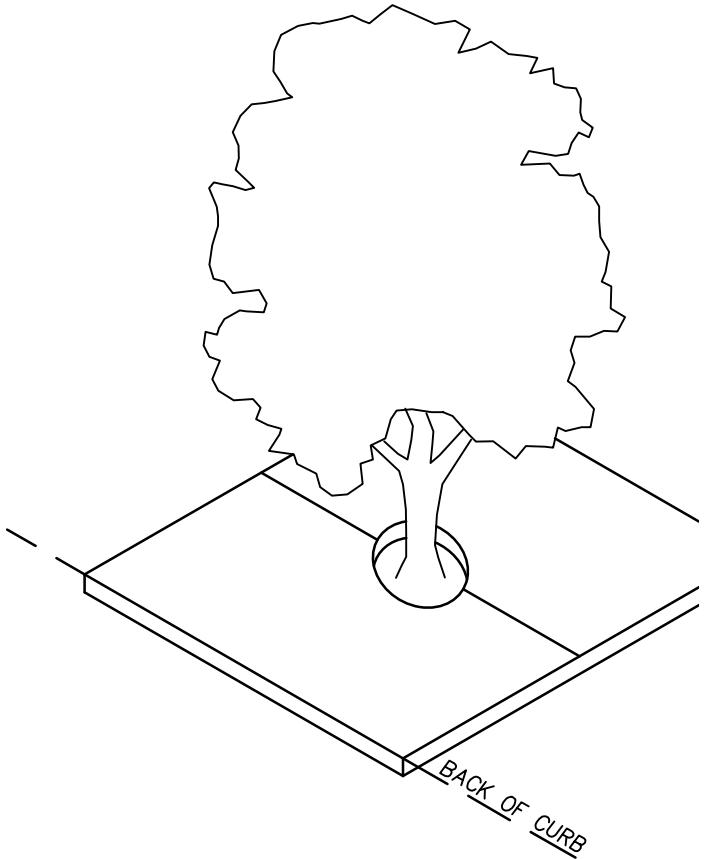
USE HEAVY DUTY SLOTTED HIGH TENSION ALUMINUM ALLOY DIE CASTINGS FOR CAPS & CROSS PIECES HAWKINS & HAWKINS, ZUMAR (PART NUMBERS GIVEN) OR CITY APPROVED EQUAL.

NO.	REVISION DATE	BY	STREET SIGNS	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS				ST-25





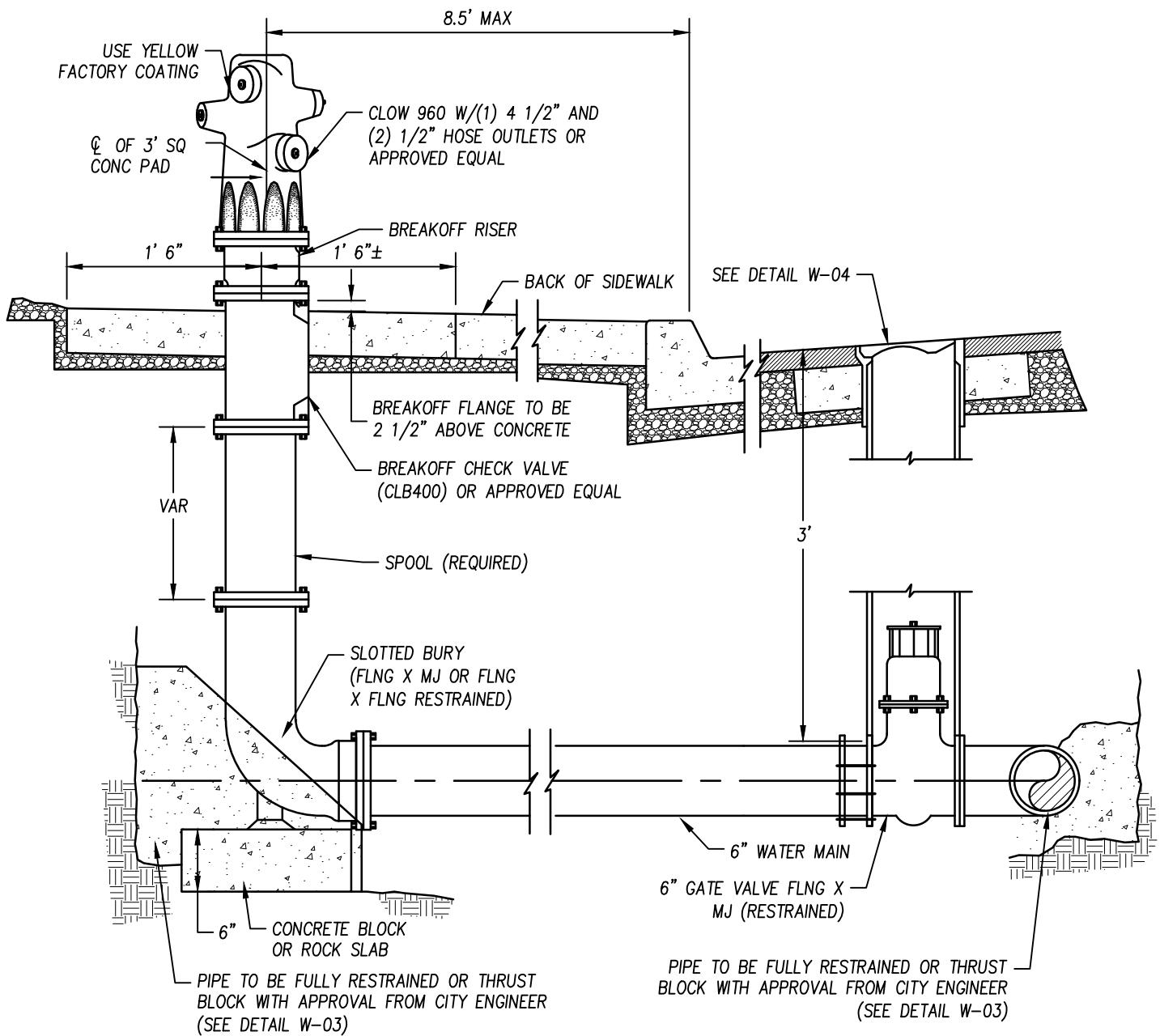
SECTION A-A



NOTES:

1. ALL DIMENSIONS SHOWN, TO BE HELD EXACTLY TO INSURE PROPER FIT FOR PRECAST COVER.
2. COVER TO BE SIMILAR AND EQUAL TO THOSE MANUFACTURED BY E.E. COOK INC. OR APPROVED EQUAL
3. SPACING AND LOCATION TO BE DESIGNATED BY THE ENGINEER.

NO.	REVISION DATE	BY	TREE AND WELL COVER	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			ST-26	

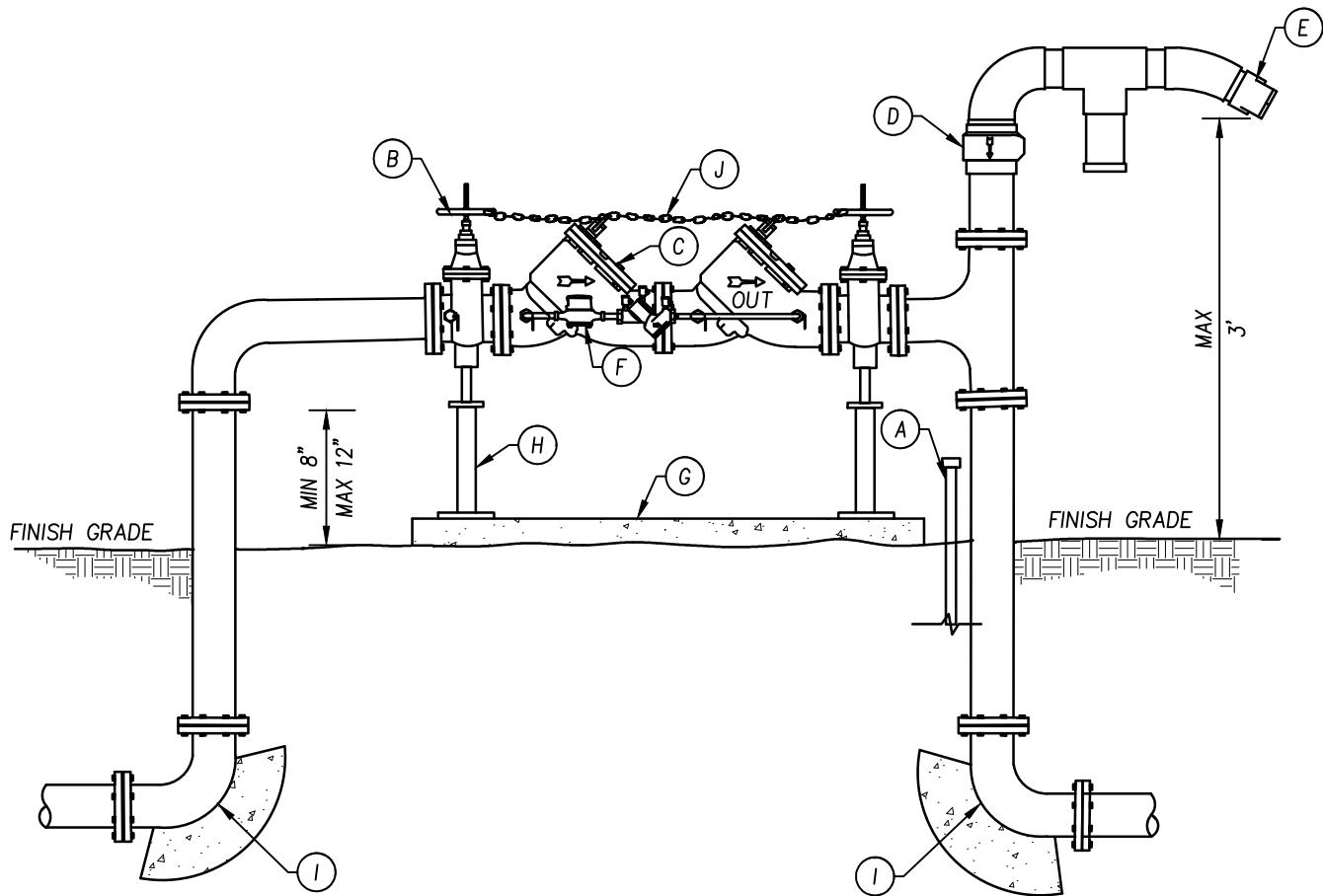


NOTES:

1. BLUE REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED 6" FROM CENTERLINE STRIPE ON THE SIDE NEAREST THE FIRE HYDRANT ON A TWO OR MULTI-LANE STREET.
2. TWO MARKERS ARE REQUIRED AT AN INTERSECTION HAVING A FIRE HYDRANT. THE MARKER SHALL BE PLACED 6" FROM THE EDGE OF THE CONTINUOUS LEFT TURN LANE LINE ON THE SIDE NEAREST THE FIRE HYDRANT.
3. FOR A FOUR LANE STREET WITH TURN LANE AT INTERSECTION THE MARKER SHALL BE PLACED 6" FROM THE NEAREST WHITE LANE LINE ON THE SIDE NEAREST THE FIRE HYDRANT.
4. PIPES SHALL BE FULLY RESTRAINED PER DETAIL W-03 UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. FIRE HYDRANT TRENCH AND BACKFILL REQUIREMENT OVER HYDRANT LATERAL SHALL ADHERE TO DETAIL W-15.
6. DIRECT BURIAL TRACING WIRE PER W-05.

NO.	REVISION DATE	BY	FIRE HYDRANT	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS				W-01



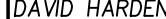


NOTES:

1. A VALVE SHOULD BE LOCATED A MINIMUM OF 3' UPSTREAM OF THE FIRST 90° ELBOW.
2. NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE CITY.
3. THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG.
4. FITTINGS SHALL BE FLANGE BY FLANGE OR RESTRAINED.
5. BURIED NUTS AND BOLTS, AND BARE METAL SHALL BE COATED WITH BITUMINOUS MATERIAL.
6. PIPE AND FITTINGS SHALL BE DUCTILE IRON.
7. BURIED PIPE AND FITTINGS SHALL BE WRAPPED AND SEALED WITH 10 MIL POLYETHYLENE.
8. ALL BACKFLOW DEVICES ALLOWED SHALL BE APPROVED BY FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH OF THE UNIVERSITY OF SOUTHERN CALIFORNIA AND SHALL BE IN THE MOST RECENT LIST APPROVED ASSEMBLIES.
9. A REDUCED PRESSURE PRINCIPAL ASSEMBLY SHALL BE REQUIRED UNLESS AUTHORIZED BY THE CITY ENGINEER

LEGEND:

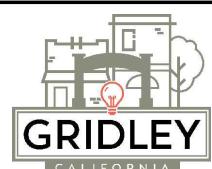
- A. VALVE TAMPER SWITCH CONDUCT TO BUILDING FIRE CONTROL ROOM
- B. OS & Y GATE VALVE (TYP)
- C. REDUCE PRESSURE BACKFLOW ASSEMBLY
- D. CHECK VALVE
- E. SIAMESE 45 DEGREE FDC WITH END CAPS
- F. WATER METER (PURCHASED THROUGH CITY IF REQUIRED)
- G. 4" THICK REINFORCED CONCRETE SLAB REINFORCED WITH A 6X6 WITH 1.4 MIN WIRE MESH
- H. SUPPORTS 2-TYP SHALL BE BOLTED DOWN WITH A MINIMUM OF TWO BOLTS EACH
- I. PIPE TO BE FULLY RESTRAINED OR THRUST BLOCK WITH APPROVAL FROM CITY ENGINEER (SEE DETAIL W-03)
- J. 1/4" NON CASE HARDENED CHAIN WITH BREAKAWAY LOCK BETWEEN VALVES PROVIDED BY THE CITY

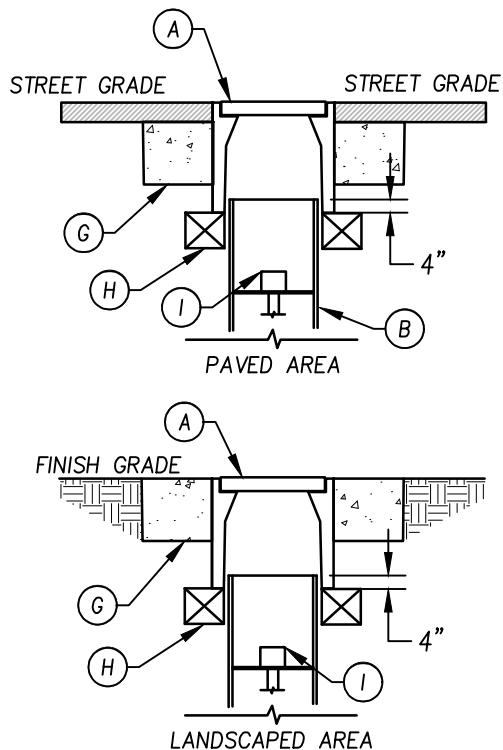
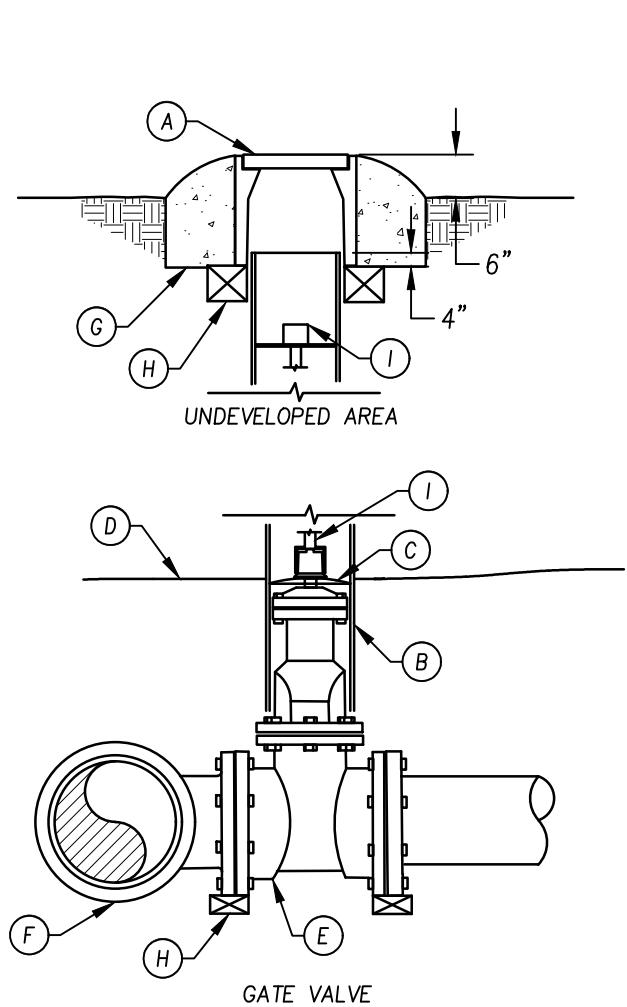
NO.	REVISION DATE	BY
DRAWN BY: J. GINNEVER		
CHECKED BY: D. HARDEN		
SCALE: NONE		
DATE: 2/2/26		
<b>FIRE ASSEMBLY WITH FDC</b>		
<b>CITY OF GRIDLEY</b> DEPARTMENT OF PUBLIC WORKS		
APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216		
<b>W-02</b>		

TYPE OF FITTING		90° BEND	45° BEND	11 1/2° OR 22 1/2° BEND	
TYPICAL INSTALLATION					
		REQUIRED BEARING - TOTAL SQUARE FEET			
SIZE OF PIPE	4"	2	1	1	
	6"	4	2	1	
	8"	7	4	2	
	10"	12	6	3	
	12"	16	10	5	
TYPE OF FITTING		TEE OR DEAD END	TEE WITH PLUG	REQUIRED LENGTH (FT) OF RESTRAINED JOINT PIPE	
TYPICAL INSTALLATION					
		REQUIRED BEARING - TOTAL SQUARE FEET			
SIZE OF PIPE	4"	2	2	22 1/2° BEND	6
	6"	3	4	11 1/4° BEND	3
	8"	5	7	TEE WITH PLUG	61
	10"	8	12	TEE (RUN LENGTH 10FT)	50
	12"	12	16		69
		PIPE SIZE			12"
		6"	8"	10"	12"
		90° BEND	29	38	45
		45° BEND	12	16	19
		22 1/2° BEND	6	8	9
		11 1/4° BEND	3	4	5
		TEE (RUN LENGTH 10FT)	50	69	84
					101

NOTES:

1. ALL JOINTS AND PIPE LENGTHS SHALL BE FULLY RESTRAINED. THRUST BLOCKS SHALL ONLY BE USED WITH PRIOR APPROVAL BY THE CITY, EXCEPT SHALL BE USED ON FIRE HYDRANT INSTALLATION.
2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE REQUIRED LENGTH OF RESTRAINED JOINT PIPE TABLE.
3. THRUST BLOCKS TO BE CONSTRUCTED OF MINOR CONCRETE.
4. AREAS GIVEN ARE FOR CLASS 150 PIPE AT TEST PRESSURE OF 150 P.S.I. IN SOIL WITH 2,000 P.S.F. BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES SHOULD ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL OF ENGINEER.
5. BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
6. JOINTS TO BE KEPT CLEAR OF CONCRETE.
7. BLOCKS TO BE IN PLACE 7 (SEVEN) DAYS BEFORE TESTING.
8. ALL PLUGS SHALL BE SECURED WITH THRUST BLOCKS.

NO.	REVISION DATE	BY	<b>THRUST BLOCKS</b>	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216	
DRAWN BY: J. GINNEVER				 <b>GRIDLEY</b> CALIFORNIA	
CHECKED BY: D. HARDEN					
SCALE: NONE					
DATE: 2/2/26					
			<b>CITY OF GRIDLEY</b> DEPARTMENT OF PUBLIC WORKS		
			<b>W-03</b>		



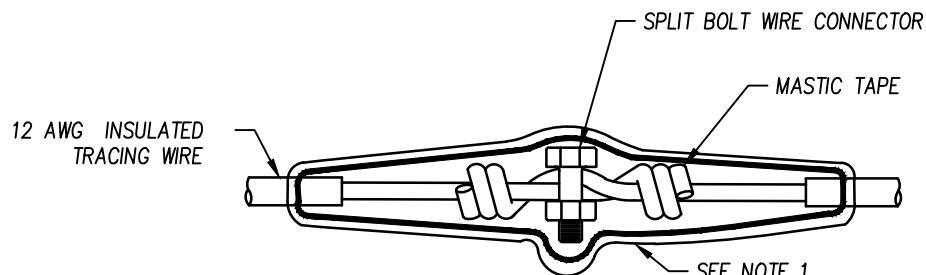
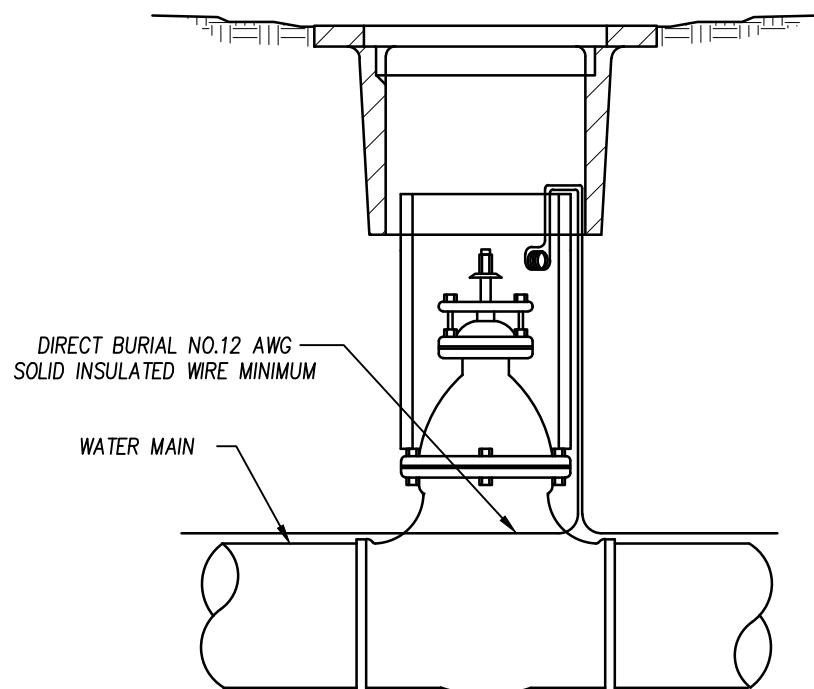
**LEGEND:**

- A. CONCRETE VALVE BOX WITH METAL LID MARKED WATER
- B. 8" Ø RISER STOCK (PVC)
- C. RISER ALIGNER
- D. PLASTIC BACKFILL TAPE
- E. GATE VALVE
- F. DUCTILE IRON TEE
- G. CONCRETE COLLAR (SEE NOTES)
- H. CONCRETE BLOCK (SEE NOTES)
- I. VALVE EXTENSION, WHERE REQUIRED

**NOTES:**

1. ALL GATE VALVES SHALL BE CENTERED IN A ONE PIECE RISER STOCK WITH THE USE OF A RISER ALIGNER.
2. OPERATOR NUTS DEEPER THAN 40" FROM FINISH GRADE SHALL REQUIRE A VALVE NUT EXTENSION 2' MINIMUM IN LENGTH.
3. VALVE BOXES LOCATED IN A PAVED AREA SHALL BE PLACED IN A 12" X 12" DEEP CONCRETE COLLAR A MINIMUM OF 2" BELOW PAVEMENT.
4. VALVE BOXES LOCATED IN A LANDSCAPED AREA SHALL BE PLACED IN A 6" X 6" CONCRETE COLLAR AT FINISHED GRADE.
5. VALVE BOXES LOCATED IN AN UNDEVELOPED AREA SHALL BE PLACED IN A 12" DEEP BY 6" WIDE CONCRETE COLLAR 6" ABOVE GRADE.
6. INSTALL (4" X 4") CONCRETE BLOCK) UNDER ENTIRE PERIMETER OF BOX OR COMPACTED AB.
7. VALVES AND FITTINGS SHALL BE WRAPPED AND SEALED IN 10 MIL POLYETHYLENE.
8. VALVE RISER STOCK SHALL BE A MINIMUM OF 4" INSIDE VALVE BOX.
9. TRACING WIRE SHALL BE CONTINUOUS BETWEEN MAINLINE VALVE BOXES AND FIRE HYDRANTS. IT SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH 10 MIL VINYL TAPE EVERY FEET.
10. OPERATING NUT EXTENSION W/ 7" DIA. PLATE WASHER WELDED TO EXTENSION AT MIDPOINT OF ROD. (MIN LENGTH OF EXTENSION ROD SHALL BE 2')
11. AN OPERATING NUT SHALL BE DRILLED AND TAPPED FOR 2 (1/4" DIA) SCREWS. SET SCREW TO EXTEND 1/8" INTO VALVE NUT.
12. VALVE BOX SHALL BE CHRISTY G5, BES G5 9 1/2" TRAFFIC BOX TYPE K-6016 OR APPROVED EQUAL MARKED WATER.
13. DIRECT BURIAL TRACING WIRE PER W-05.

NO.	REVISION DATE	BY	GATE VALVE & BOX		APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER				
CHECKED BY:	D. HARDEN				
SCALE:	NONE				
DATE:	2/2/26				
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			W-04		



SPLICE DETAIL

NOTES:

1. TWIST THE WIRE A MINIMUM OF 2 TIMES ON EACH END. INSTALL SPLIT BOLT CONNECTOR. SOLDER WIRE AND COVER THE ENTIRE SPLICE WITH 10 MIL VINYL TAPE. WIRE SPLICES SHALL BE LOCATED WITHIN A VALVE BOX.
2. 24" TRACING WIRE COILED IN BOX.
3. TRACING WIRE TO BE CONTINUOUS BETWEEN VALVE BOXES AND FIRE HYDRANTS, EXCEPT WHERE BOXES ARE WITHIN 10' OF PIPE INTERSECTION.
4. TRACING WIRE TO BE ATTACHED TO THE TOP OF THE PIPE WITH 10 MIL VINYL TAPE EVERY 5'.
5. TRACING WIRES THROUGH VALVE BOX SHALL BE PLACED OUTSIDE OF RISER, BUT INSIDE THE BOX.
6. TRACING WIRE IN MANHOLES AND VAULTS SHALL BE ATTACHED INSIDE THE FACILITY WITHIN ONE FOOT OF THE RIM.
7. LOCATING WIRE MUST BE TESTED FOR CONTINUITY & BE IN WORKING ORDER AFTER ALL UNDERGROUND WORK IS DONE AND PRIOR TO STREET PAVING.

NO.	REVISION DATE	BY
DRAWN BY: J. GINNEVER		
CHECKED BY: D. HARDEN		
SCALE: NONE		
DATE: 2/2/26		

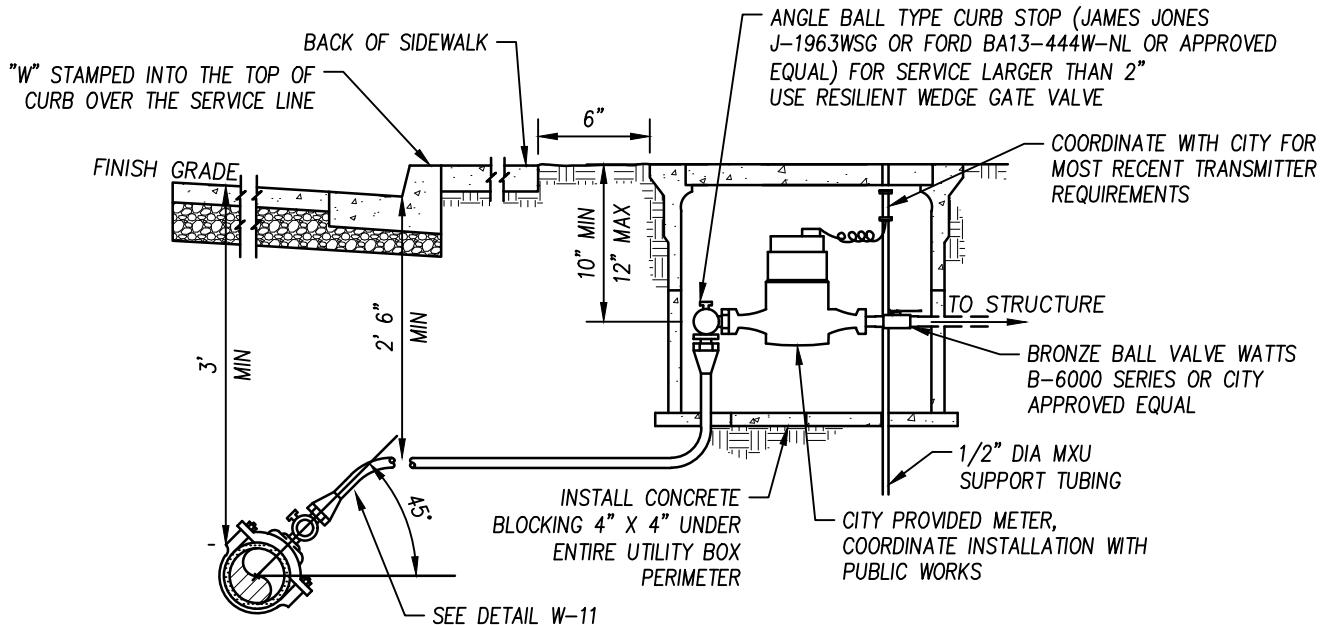
**LOCATING WIRE FOR WATER MAINS AND SERVICES**

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216

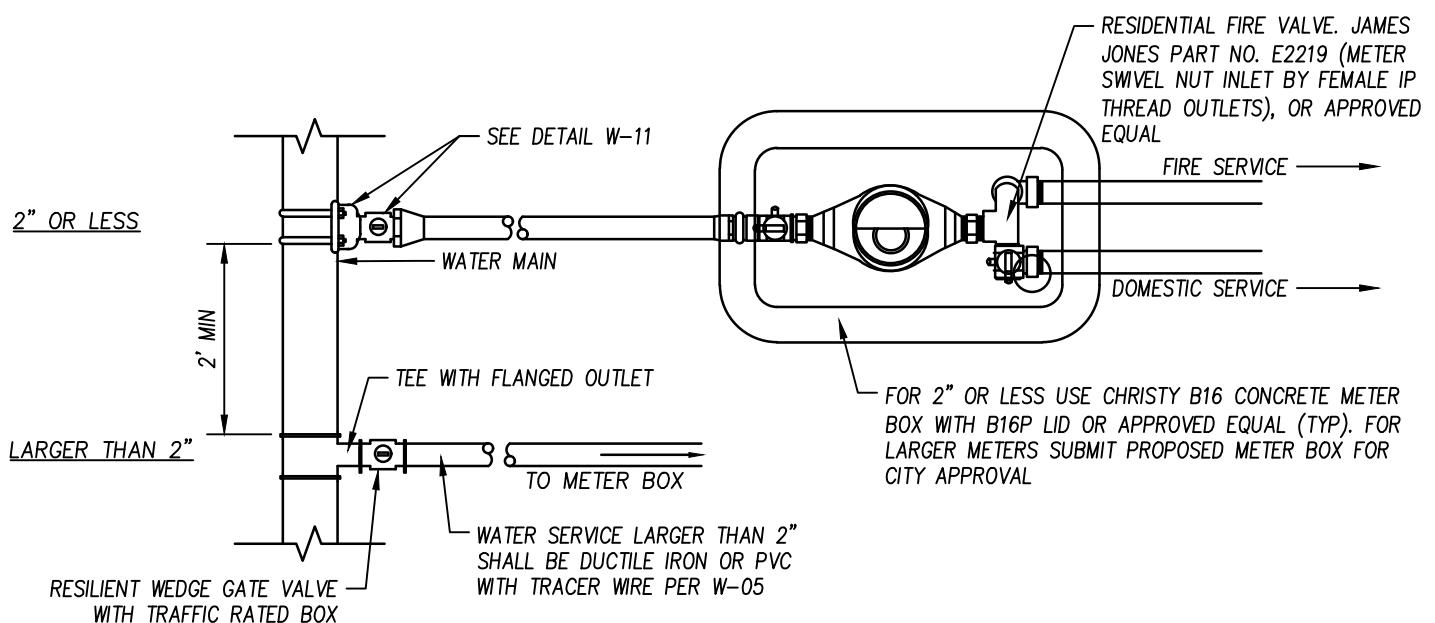


**CITY OF GRIDLEY**  
DEPARTMENT OF PUBLIC WORKS

**W-05**



PROFILE

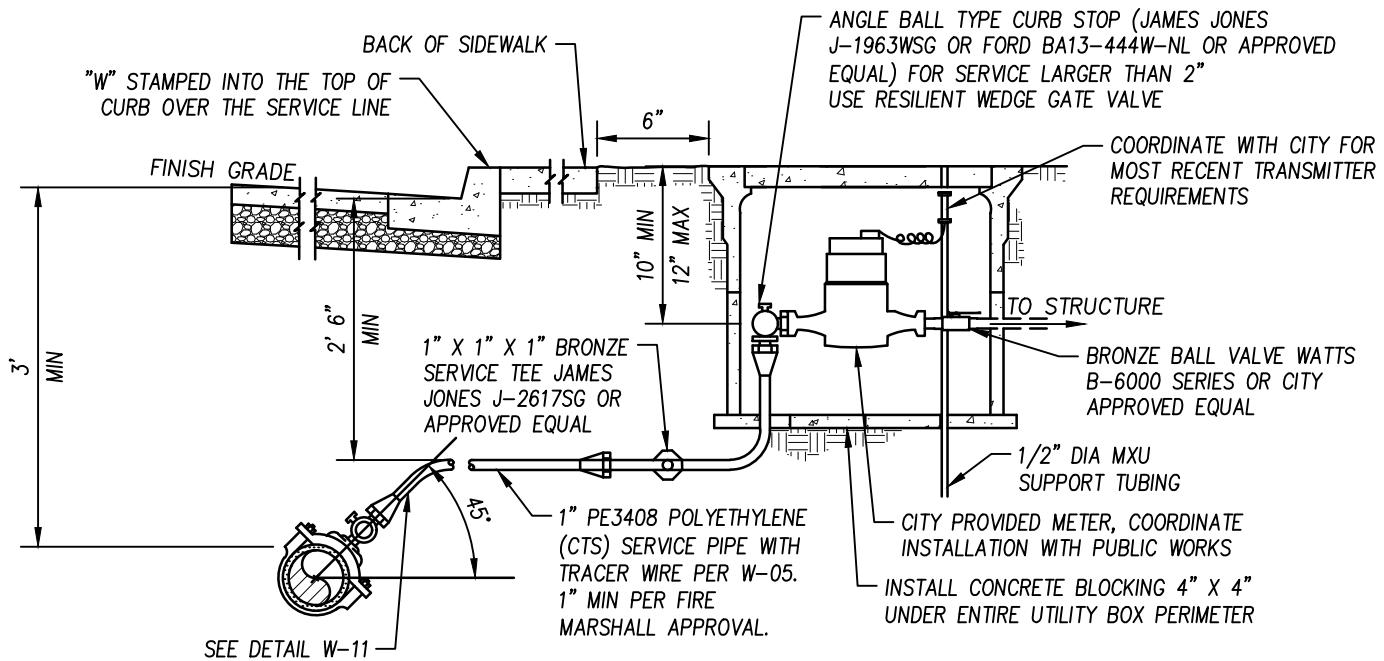


PLAN

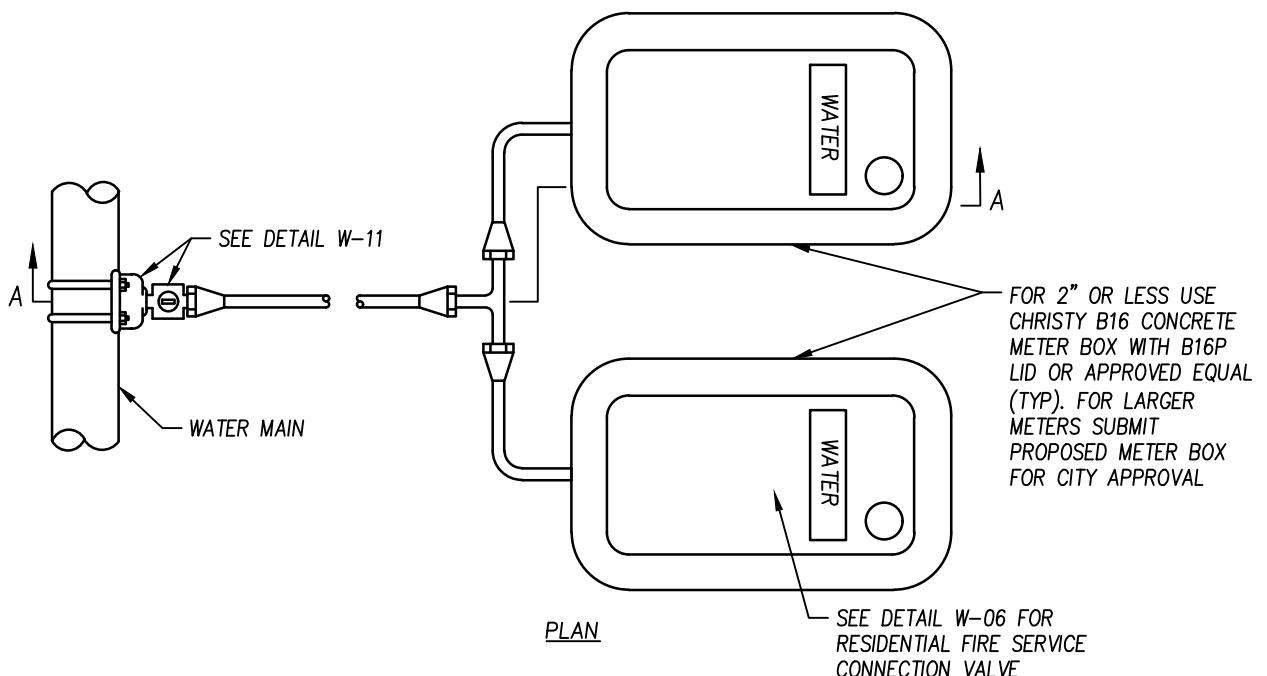
NOTES:

1. LOCATE TYPICAL WATER SERVICE NEAR THE PROPERTY LINE
2. MINIMUM COVER FOR WATER MAIN SHALL BE 3' (3' 6" PREFERRED)
3. IF WATER SERVICE IS INCREASED AFTER THE METER, THE INCREASE MUST OCCUR A MIN OF THREE PIPE DIA LENGTHS AFTER THE METER

NO.	REVISION DATE	BY	SINGLE WATER SERVICE MAIN CONNECTION	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	W-06

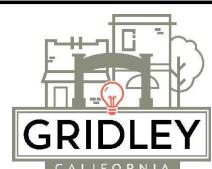


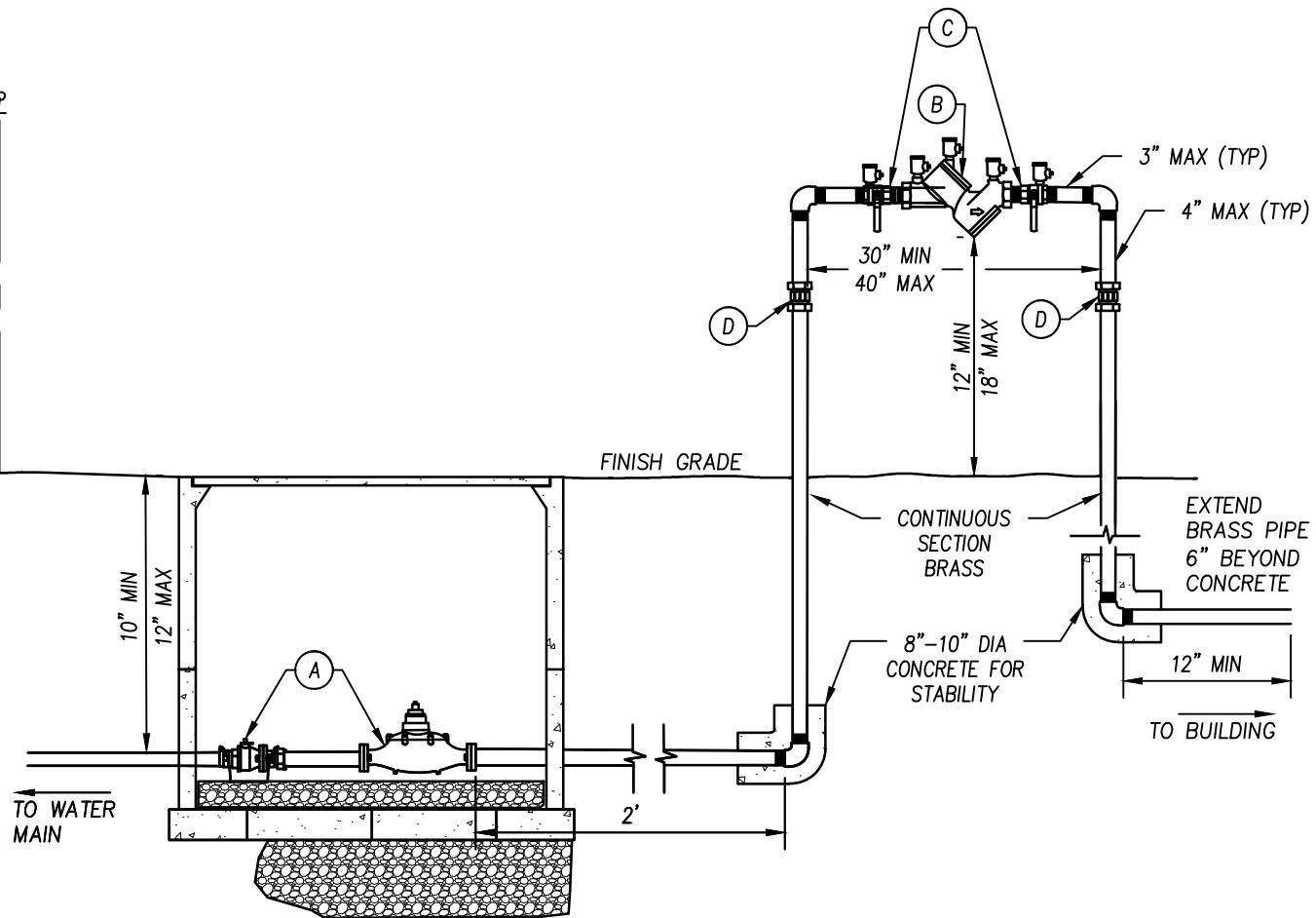
PROFILE



NOTES:

1. MINIMUM COVER FOR WATER SERVICE SHALL BE 3' (3' 6" PREFERRED)
2. LOCATE TYPICAL WATER SERVICE NEAR THE PROPERTY LINE
3. WATER SERVICE PIPE SIZE MAY BE INCREASED AFTER THE METER TO MEET DEMAND FOR DOMESTIC AND FIRE SERVICES IN THE FOLLOWING AREAS: (1) LOW PRESSURE AREAS WITHIN WATER ZONES (2) HILLSIDE SUBDIVISIONS (3) CUSTOM HOME SUBDIVISIONS
4. IF WATER SERVICE IS INCREASED AFTER THE METER, THE INCREASE MUST OCCUR A MIN OF THREE PIPE DIA LENGTHS AFTER THE METER

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
			 <b>GRIDLEY</b> CALIFORNIA
DRAWN BY:	J. GINNEVER		
CHECKED BY:	D. HARDEN		
SCALE:	NONE		
DATE:	2/2/26		
<b>DOUBLE WATER SERVICE MAIN CONNECTION</b>			<b>W-07</b>
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			

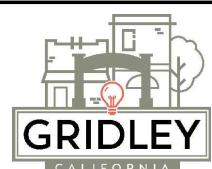


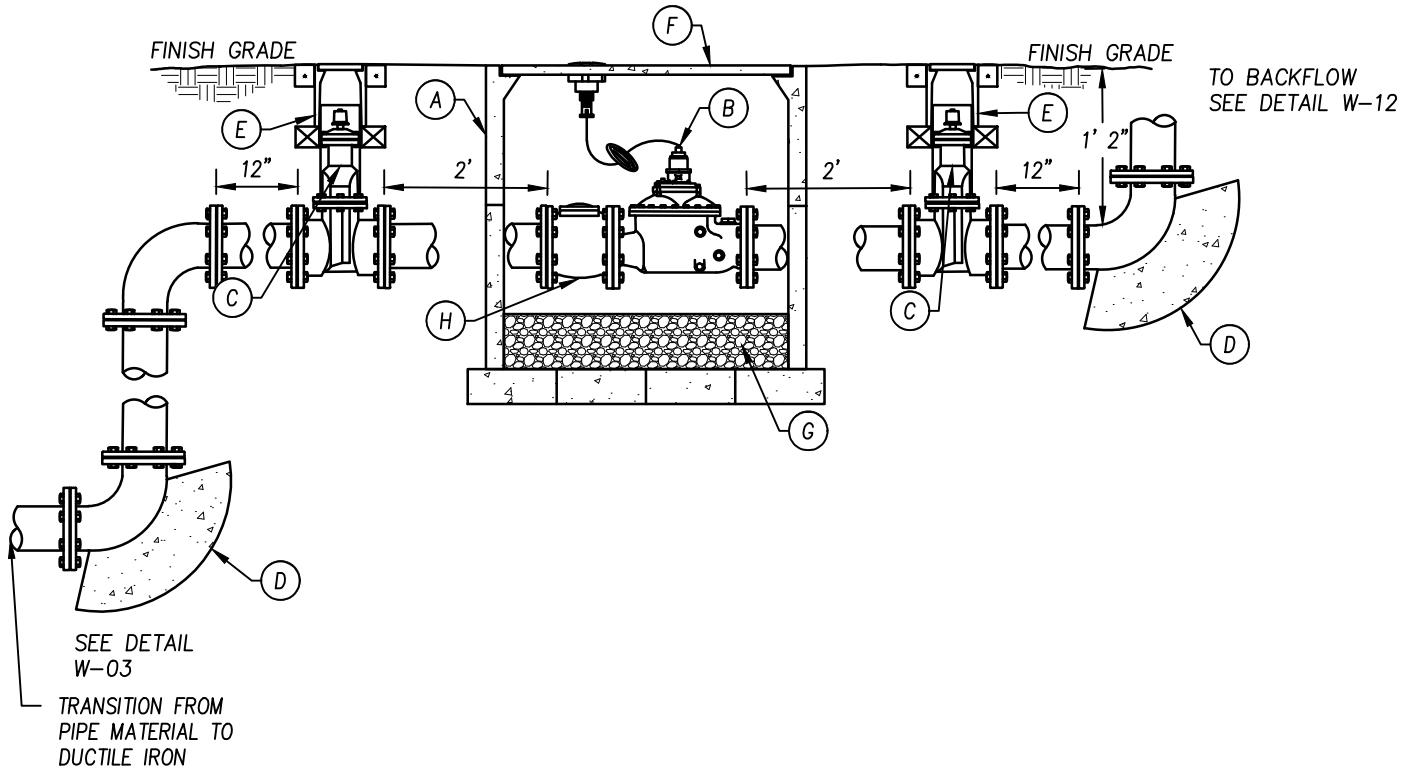
NOTES:

LEGEND:

- A. INSTALL PER W-06
- B. ZURN WILKINS 975 XL BACKFLOW DEVICE
- C. BALL VALVES
- D. INSTALL (2) UNIONS NOT CONNECTED TO REGULATOR

1. NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE CITY.
2. CONTRACTOR SHALL LAY 3/4" DRAIN ROCK TO 12" DEPTH UNDER CONCRETE BLOCKING AT METER SETTER.
3. WATER METERS SHALL BE PURCHASED THROUGH THE CITY.
4. WATER METERS WILL BE INSTALLED BY THE CITY AND COORDINATED WITH THE CITY FOR INSTALLATION.
5. THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG.
6. CURBSTOP SHALL BE BETWEEN 12" & 18" OF EASEMENT.
7. FITTINGS AND PIPING SHALL BE BRASS.
8. BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 10 MIL POLYETHYLENE OR APPROVED EQUAL.
9. ALL BACKFLOW DEVICES ALLOWED SHALL BE APPROVED BY FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH OF THE UNIVERSITY OF SOUTHERN CALIFORNIA AND SHALL BE IN THE MOST RECENT LIST OF APPROVED ASSEMBLIES.
10. 1" METER ALLOWED FOR IRRIGATION USE ONLY, UNLESS APPROVED BY CITY ENGINEER
11. REDUCE PRESSURE PRINCIPAL ASSEMBLY REQUIRED, UNLESS AUTHORIZED BY ENGINEER

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
			<b>COMMERCIAL &amp; IRRIGATION SERVICE LINE</b>
DRAWN BY: J. GINNEVER			(FOR 1", 1.5", AND 2" METERS)
CHECKED BY: D. HARDEN			
SCALE: NONE			<b>CITY OF GRIDLEY</b> DEPARTMENT OF PUBLIC WORKS
DATE: 2/2/26			<b>W-08</b>



LEGEND:

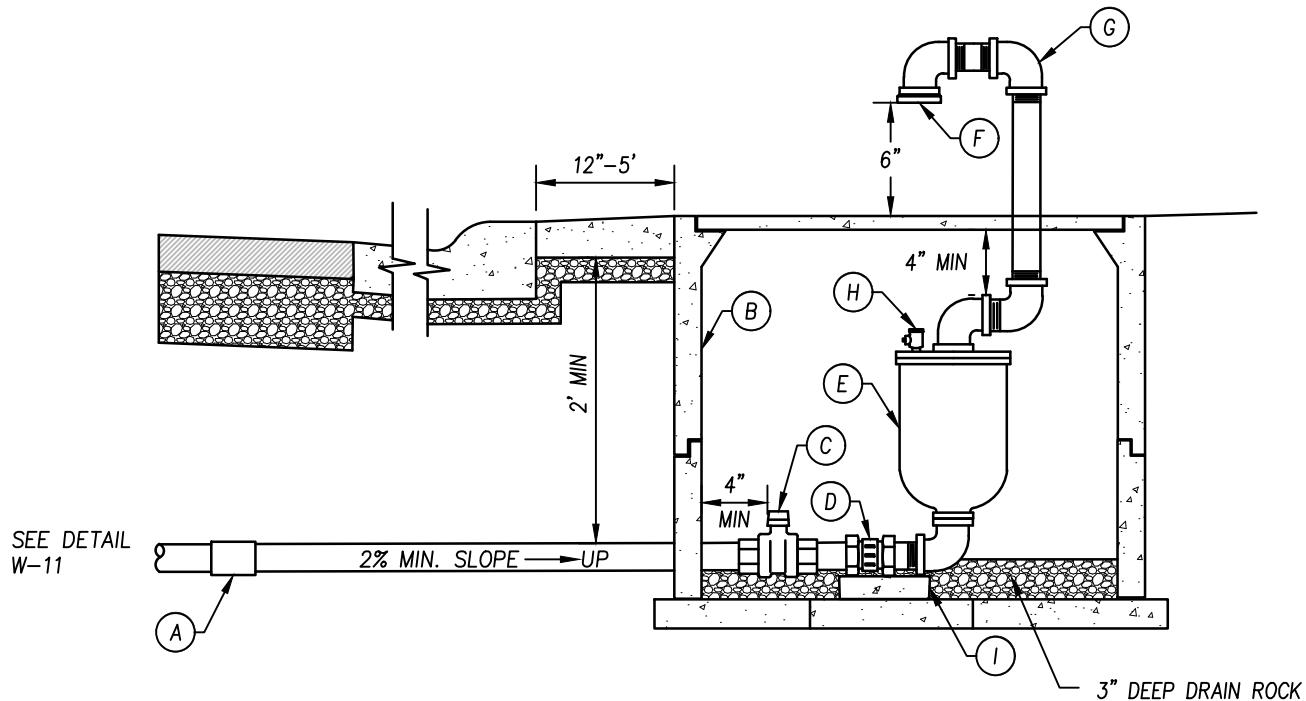
- A. METER BOX TO BE SIZED AND SUBMITTED PRIOR TO INSTALL BY CITY APPROVAL.
- B. METER (PURCHASED THROUGH CITY), INSTALL IDLER SPOOL DURING INSTALLATION OF METER BOX.
- C. GATE VALVE.
- D. PIPE TO BE FULLY RESTRAINED OR THRUST BLOCK APPROVAL FROM CITY ENGINEER (SEE DETAIL W-03)
- E. VALVE AND BOX (SEE DETAIL W-04).
- F. METAL TRAFFIC LID WELD MARKED "GRIDLEY WATER."
- G. 3/4" DRAIN ROCK 8" IN DEPTH.
- H. FLANGE COUPLING ADAPTER

NOTES:

1. PIPE SHALL BE DUCTILE IRON UNLESS OTHERWISE STATED.
2. INSTALL CONCRETE BLOCKING 4" X 4" UNDER ENTIRE UTILITY BOX PERIMETER.
3. PIPE AND FITTINGS SHALL BE WRAPPED WITH 10 MIL POLYETHYLENE
4. USE CITY APPROVED RESTRAINED JOINTS OR FLANGED SPOOLS.
5. WATER METER SHALL BE PURCHASED THROUGH THE CITY.
6. INSTALL TRACER WIRE, SEE DETAIL W-05

NO.	REVISION DATE	BY	LARGE COMMERCIAL WATER METER INSTALLATION	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	W-09





LEGEND:

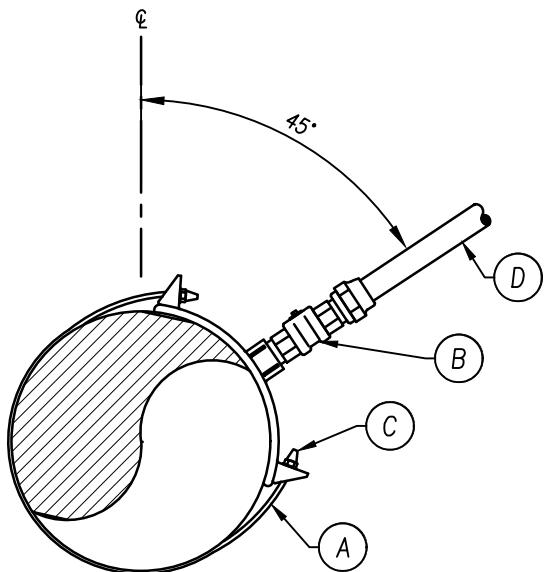
- A. BRASS THREADED COUPLING (IF REQUIRED)
- B. OLD CASTLE PRECAST B-40 UTILITY BOX W/TRAFFIC COVER MARKED, "GRIDLEY ARV". IF EXTENSION IS REQUIRED MORTAR EXTENSION JOINT INSIDE & OUT OR APPROVED EQUAL.
- C. CURB STOP
- D. BRASS UNION
- E. COMBINATION AIR/VACUUM VALVE CRISPIN AL SERIES OR APPROVED EQUAL.
- F. BRASS CAP WITH 9 DRILLED 1/16" HOLES OR APPROVED EQUAL.
- G. USE GALVANIZED PIPE AND FITTINGS ABOVE GROUND
- H. 1/4" TEST COCK
- I. CONCRETE BLOCK FOR SUPPORT

NOTES:

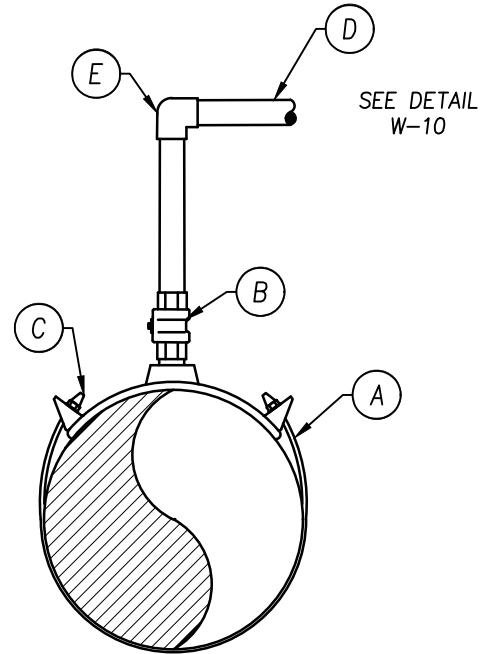
1. INSTALL CONCRETE BLOCKING 4" X 4" UNDER ENTIRE UTILITY BOX PERIMETER.
2. BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 10 MIL POLYETHYLENE OR APPROVED EQUAL.
3. DETECTABLE BACKFILL TAPE SHALL BE PLACED 18" ABOVE PIPELINE.
4. INSTALL TRACER WIRE, SEE DETAIL W-05

NO.	REVISION DATE	BY	AIR-VACUUM VALVES	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS				W-10





DOUBLE STRAP PIPE  
SADDLE



ARV SADDLE

LEGEND:

- A. FULL BODY SUPPORT SADDLE (FORD BOLTED S90 OR APPROVED EQUAL, SIZE 1" W/ FIP THREADS) ON PVC C900 WATER MAIN. USE STANDARD DOUBLE STRAP SADDLE ON OTHER PIPE MATERIALS
- B. BALL-TYPE COMPRESSION CORPORATION STOP (JAMES JONES E-1935SG 1" W/MIP THREADS OR EQUAL)
- C. ZINC CAPS ON ALL BOLTS (ONLY WITH NON-INSULATED CORPORATION STOP)
- D. 1" PE3408 POLYTHENE (CTS) SERVICE PIPE WITH TRACER WIRE PER W-05
- E. 90° BRASS FITTINGS

NOTES:

1. WRAP CORPORATION STOP AND COPPER SERVICE WITH 10 MIL POLYETHYLENE TAPE.
2. SADDLES SHALL BE WRAPPED IN 10 MIL POLYETHYLENE AND BACKFILLED WITH SAND.
3. CONNECTIONS LARGER THAN 3" SHALL BE CUT IN TEE OR CITY APPROVED ALTERNATIVE.
4. ANY HOT TAP SHALL BE APPROVED BY CITY ENGINEER AND PUBLIC WORKS STAFF
5. INSTALL TRACER WIRE SEE DETAILS W-05

NO.	REVISION DATE	BY
DRAWN BY: J. GINNEVER		
CHECKED BY: D. HARDEN		
SCALE: NONE		
DATE: 2/2/26		

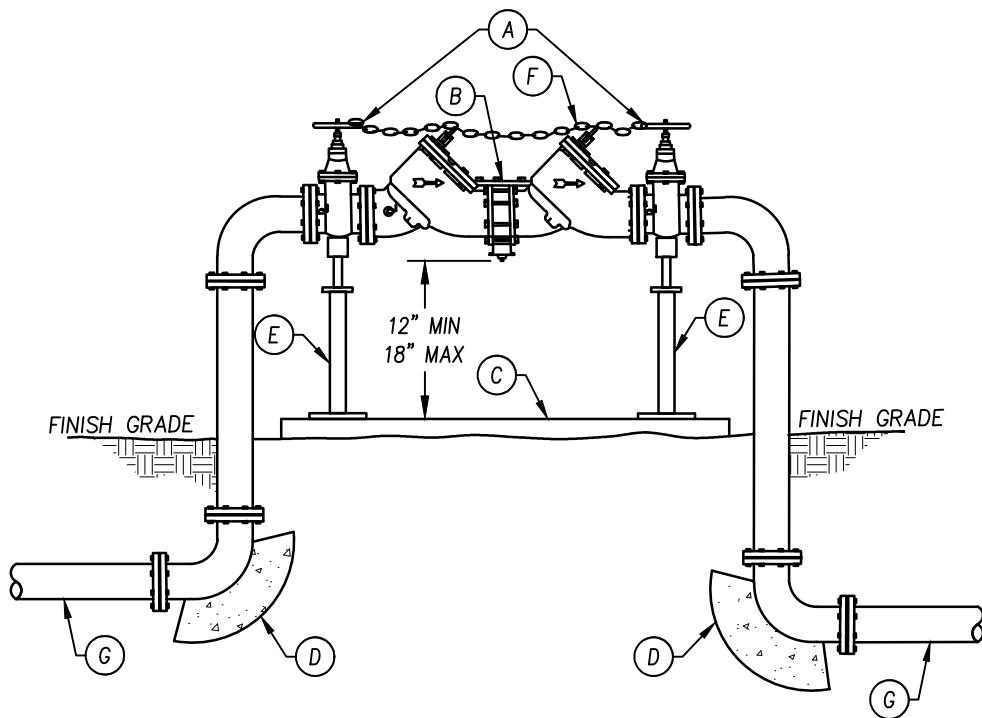
**SADDLE DETAIL**

**CITY OF GRIDLEY**  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



**W-11**



LEGEND:

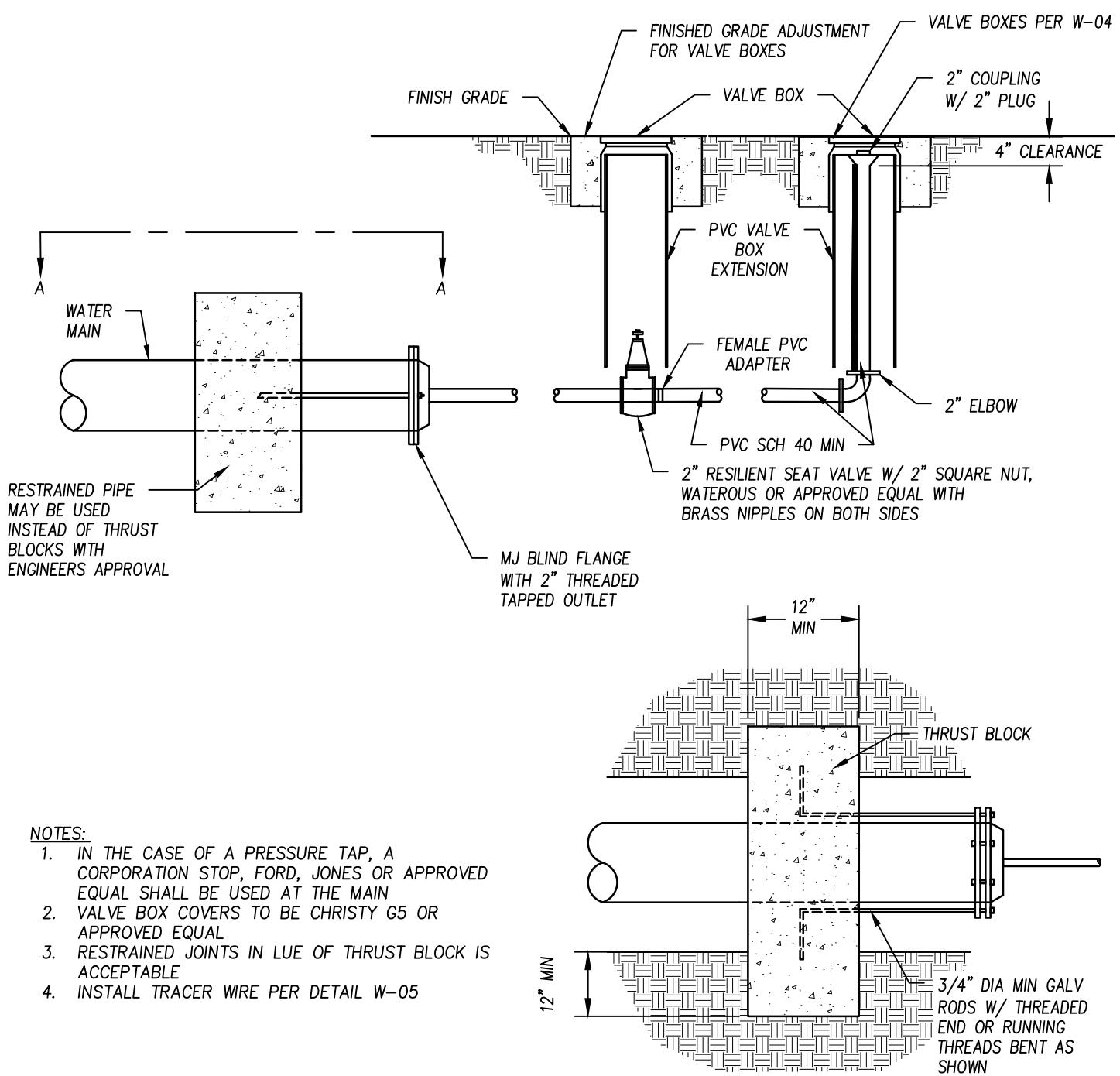
- A. RESILIENT SEAT GATE VALVES
- B. REDUCED PRESSURE PRINCIPAL ASSEMBLY REQUIRED UNLESS AUTHORIZED BY ENGINEER
- C. 4" THICK CONCRETE SLAB REINFORCED WITH 6X6 W1.4 MIN WIRE MESH
- D. PIPE TO BE FULLY RESTRAINED OR THRUST BLOCK WITH APPROVAL FROM CITY ENGINEER (SEE DETAIL W-03)
- E. SUPPORT STANDS BOLTED INTO CONCRETE
- F. 1/4" NON-CASE HARDENED CHAIN WITH BREAKAWAY LOCK
- G. DUCTILE IRON SPOOLS SHALL BE 5X THE PIPE DIAMETER

NOTES:

1. NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED AND APPROVED BY THE CITY.
2. PIPE SHALL BE DUCTILE IRON.
3. GATE VALVES SHALL BE RESILIENT SEAT.
4. PIPE AND FITTINGS SHALL BE WRAPPED WITH 10 MIL POLYETHYLENE.
5. USE CITY APPROVED RESTRAINED JOINTS OR FLANGED SPOOLS.
6. THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG.
7. ALL BACKFLOW DEVICES ALLOWED SHALL BE APPROVED BY FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH OF THE UNIVERSITY OF SOUTHERN CALIFORNIA AND SHALL BE IN THE MOST RECENT LIST OF APPROVED ASSEMBLIES.

NO.	REVISION DATE	BY	3 IN. OR LARGER REDUCED PRESSURE BACKFLOW PREVENTER INSTALLATION	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	W-12

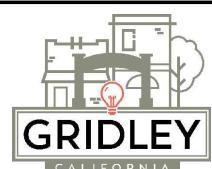


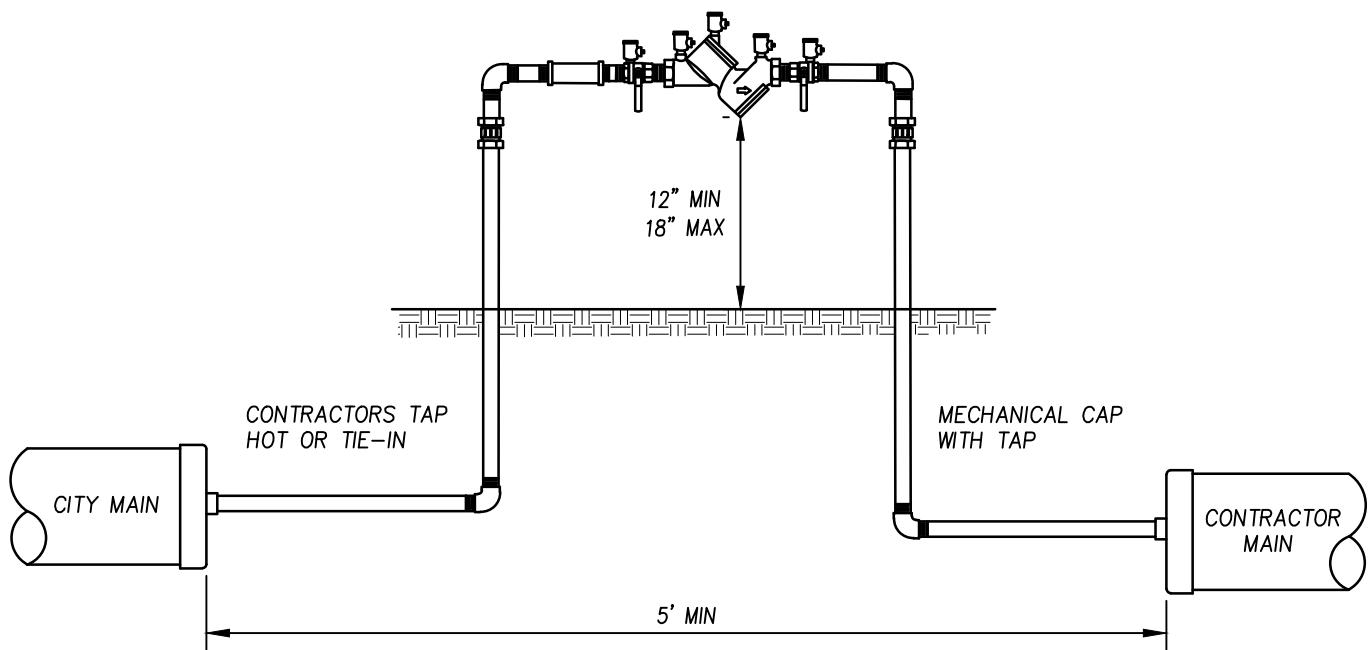


NOTES:

1. IN THE CASE OF A PRESSURE TAP, A CORPORATION STOP, FORD, JONES OR APPROVED EQUAL SHALL BE USED AT THE MAIN
2. VALVE BOX COVERS TO BE CHRISTY G5 OR APPROVED EQUAL
3. RESTRAINED JOINTS IN LUE OF THRUST BLOCK IS ACCEPTABLE
4. INSTALL TRACER WIRE PER DETAIL W-05

VIEW A-A

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			
<b>2" BLOW OFF DEAD-END WATER MAIN</b>			 <b>GRIDLEY</b> CALIFORNIA
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			<b>W-13</b>



PRIOR TO CONNECTION TO THE CITY MAIN,  
THE FOLLOWING CONDITIONS SHALL BE MET:

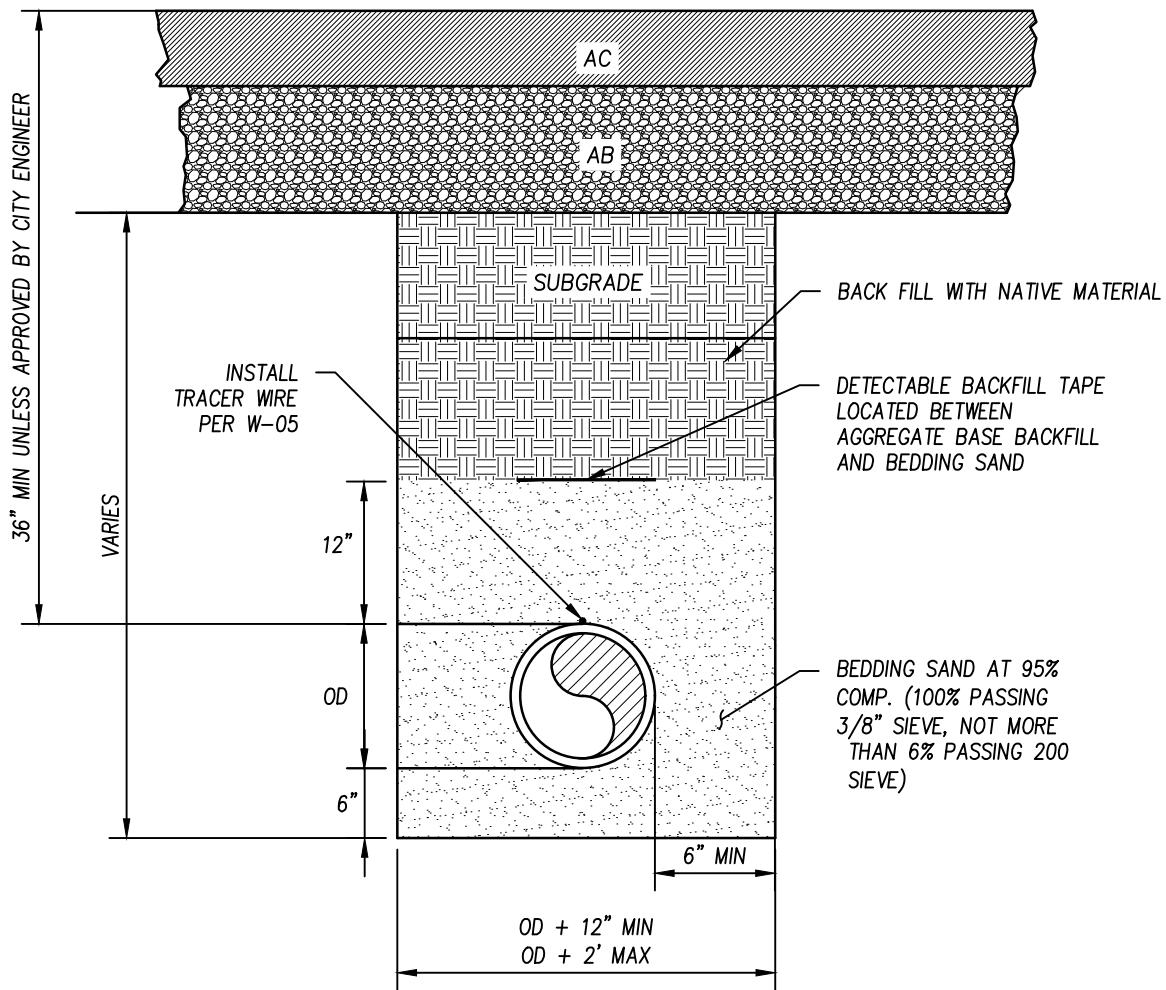
- A. PRESSURE TEST – PASSED
- B. CHLORINE TEST – PASSED
- C. TURBIDITY TEST – PASSED
- D. BACTERIA TEST – PASSED
- E. APPROVAL BY THE CITY ENGINEER

NOTES:

1. HOT TAP WILL NOT BE ALLOWED ON EXISTING STEEL PIPELINES NOR WHEN THE SERVICE LINE IS GREATER THAN 2/3 THE DIAMETER OF THE MAIN. HOT TAP IS ONLY ALLOWED IF APPROVED BY THE CITY.
2. WATER SHALL ONLY BE DRAWN INTO THE CONTRACTORS MAIN THROUGH A CITY APPROVED REDUCED PRESSURE TYPE BACKFLOW DEVICE WHICH HAS BEEN TESTED AND TAGGED BY THE CITY.
3. FINAL SYSTEM COMPONENTS NECESSARY FOR TIE-IN SHALL BE PRE-CHLORINATED AND PRE-FLUSHED IN THE PRESENCE OF THE PUBLIC WORKS STAFF
4. UPON COMPLETION OF THE CONDITIONS NOTED ABOVE AND WITH THE APPROVAL OF THE CITY ENGINEER, CONNECTION TO THE CITY SYSTEM MAY BE MADE. THE CITY INSPECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF WORK.

NO.	REVISION DATE	BY	CONSTRUCTION WATER DETAIL	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	W-14

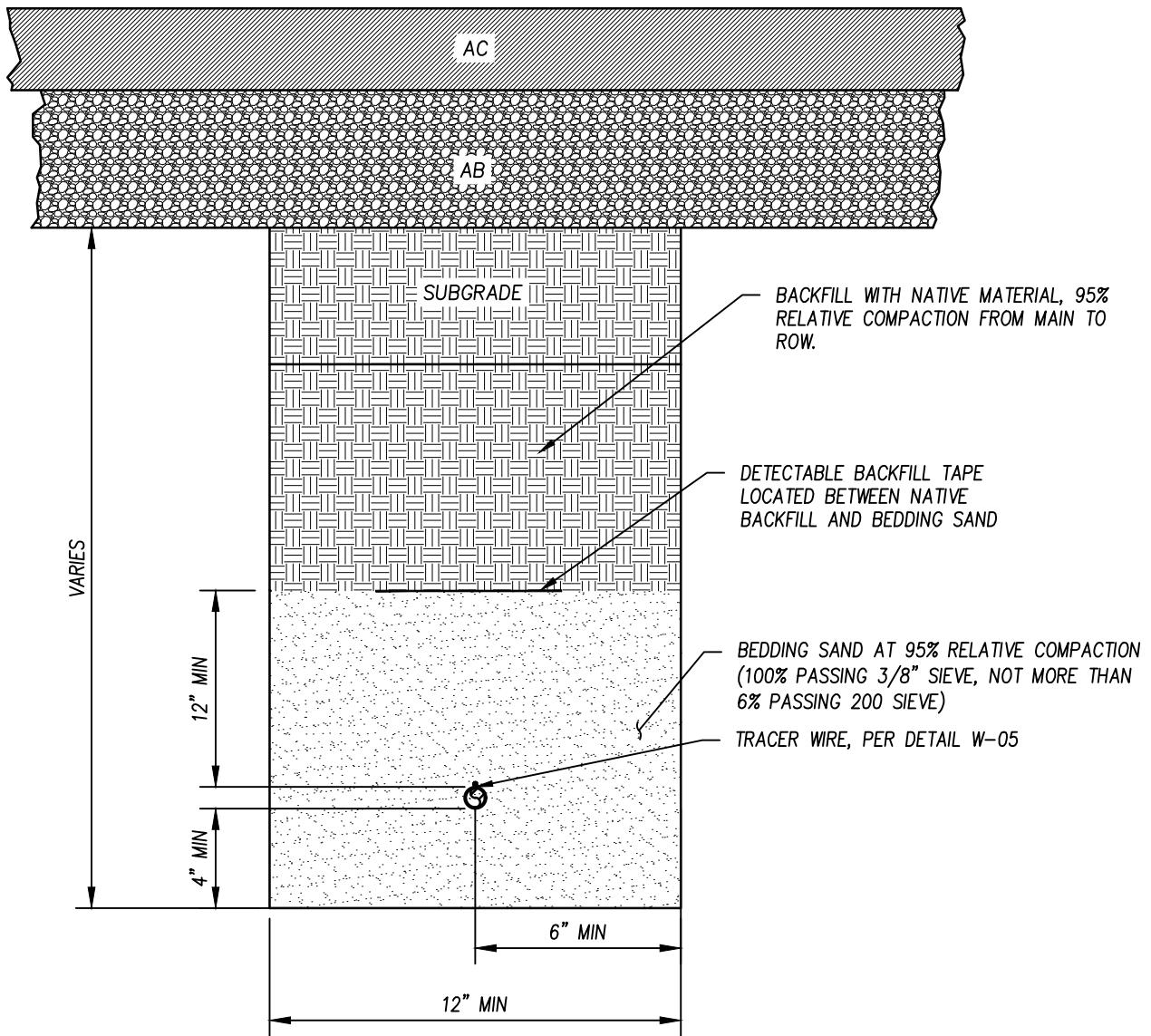




NOTES:

1. REFER TO DETAIL ST-20 AND ST-21 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.
2. BACKFILL SHALL BE MECHANICALLY CONSOLIDATED OR SHOVEL SLICED UNDER THE HAUNCHES OF THE PIPE.
3. IN ROCKY OR UNYIELDING SOIL, THE TRENCH SHALL BE EXCAVATED A MINIMUM OF 12" BELOW THE PIPE AND THE TRENCH WIDTH SHALL BE INCREASED BY 12".
4. ONE 12" WIDE STRIP OF BACKFILL TAPE SHALL BE USED FOR EVERY 12" PIPE DIAMETER OR FRACTION THERE OF. BACKFILL TAPE SHALL BE BLUE, MARKED "WATER MAIN BURIED BELOW" AND APPROVED FOR EXTENDED UNDERGROUND USE.

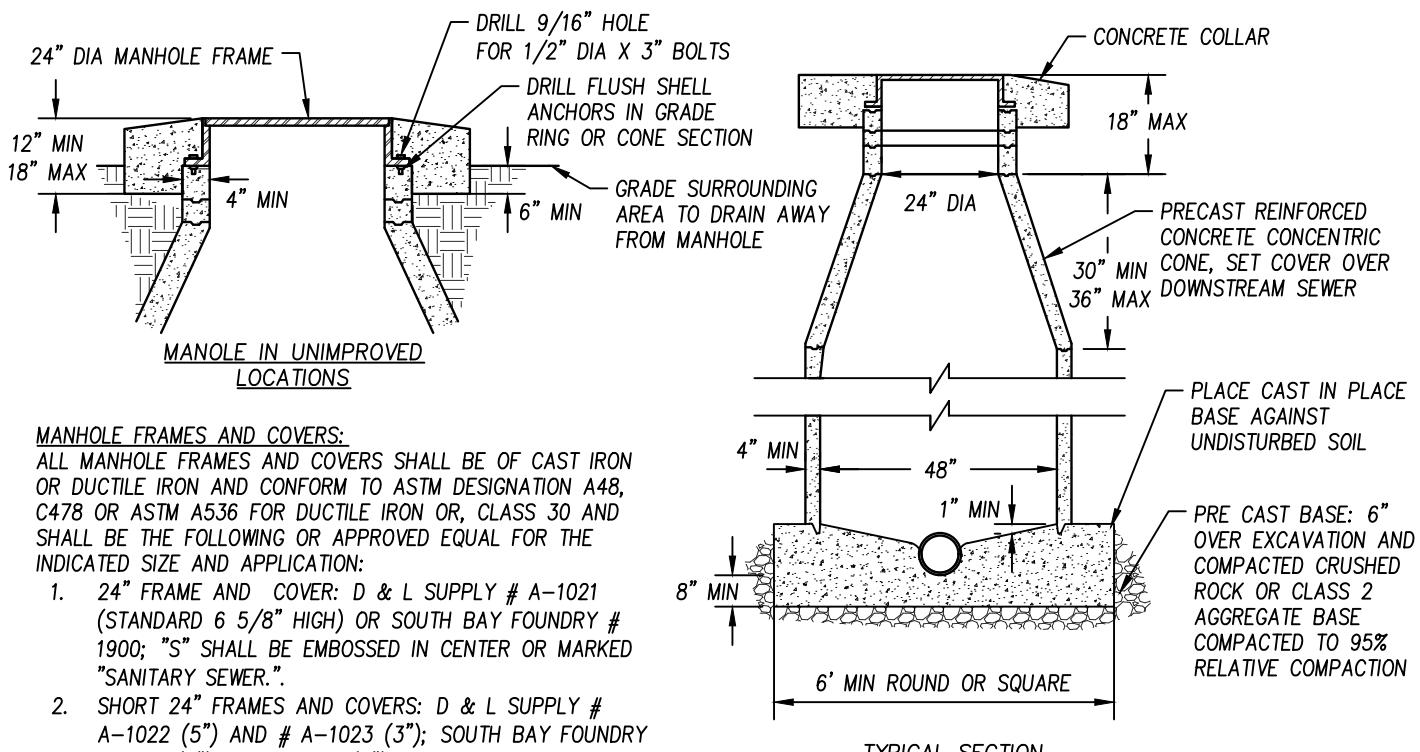
NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER		
CHECKED BY:	D. HARDEN		
SCALE:	NONE		
DATE:	2/2/26		
<b>WATER MAIN TRENCH AND BACKFILL</b>			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			<b>W-15</b>
			



NOTES:

1. BACKFILL SHALL BE MECHANICALLY CONSOLIDATED OR SHOVEL SLICED UNDER THE HAUNCHES OF THE PIPE.
2. IN ROCKY OR UNYIELDING SOIL, THE TRENCH SHALL BE EXCAVATED A MINIMUM OF 12" BELOW THE PIPE AND THE TRENCH WIDTH SHALL BE INCREASED BY 12".
3. ONE 3" WIDE STRIP OF BACKFILL TAPE SHALL BE USED FOR EVERY 6" PIPE DIAMETER OR FRACTION THERE OF. BACKFILL TAPE SHALL BE BLUE, MARKED "WATER LINE/PIPE BURIED BELOW" AND APPROVED FOR EXTENDED UNDERGROUND USE.
4. THERE MUST BE A MINIMUM OF 30" COVER FROM THE TOP OF THE PIPE TO THE FINISHED GRADE.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
			
DRAWN BY:	J. GINNEVER		
CHECKED BY:	D. HARDEN		
SCALE:	NONE		
DATE:	2/2/26		
<b>TRENCH AND BACKFILL FOR WATER SERVICE LINES</b>			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			<b>W-16</b>

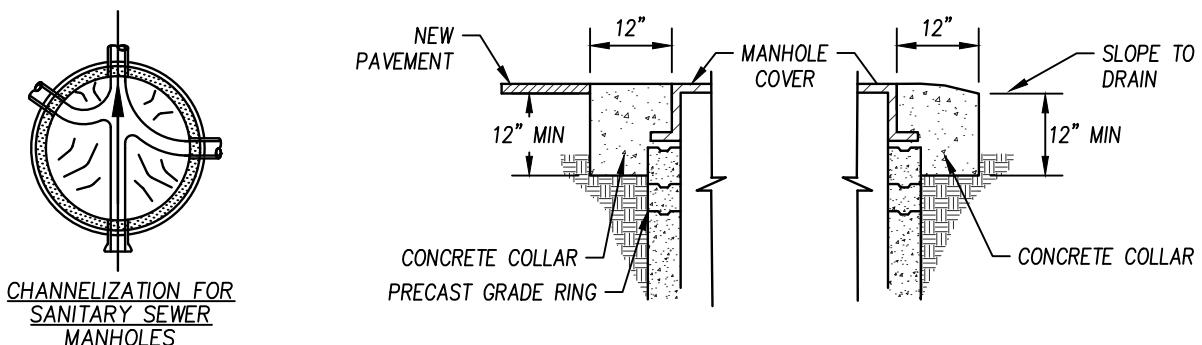


MANHOLE FRAMES AND COVERS:

ALL MANHOLE FRAMES AND COVERS SHALL BE OF CAST IRON OR DUCTILE IRON AND CONFORM TO ASTM DESIGNATION A48, C478 OR ASTM A536 FOR DUCTILE IRON OR, CLASS 30 AND SHALL BE THE FOLLOWING OR APPROVED EQUAL FOR THE INDICATED SIZE AND APPLICATION:

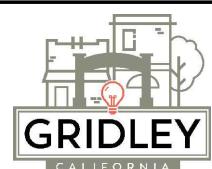
1. 24" FRAME AND COVER: D & L SUPPLY # A-1021 (STANDARD 6 5/8" HIGH) OR SOUTH BAY FOUNDRY # 1900; "S" SHALL BE EMBOSSED IN CENTER OR MARKED "SANITARY SEWER".
2. SHORT 24" FRAMES AND COVERS: D & L SUPPLY # A-1022 (5") AND # A-1023 (3"); SOUTH BAY FOUNDRY # 1922 (5") AND # 1923 (3").

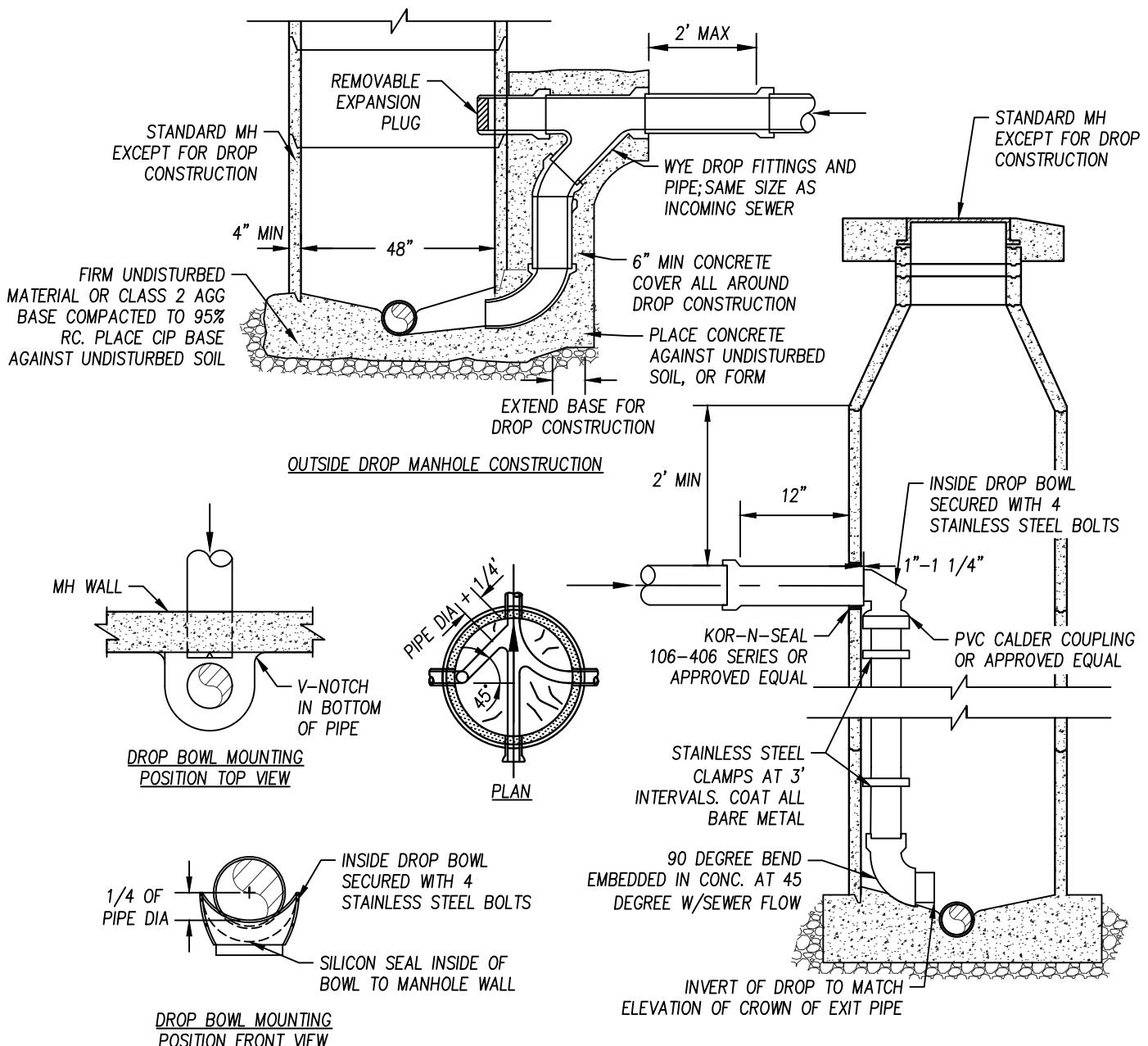
NOTE: COVER FOR ALL 24" FRAMES ARE INTERCHANGEABLE.



NOTES:

1. FORM SMOOTH AND UNIFORM CHANNELS IN INVERT TO MEET ENDS OF PIPES. FINISH TO BE EQUIVALENT TO STEEL TROWEL FINISH.
2. END PIPE 2" FROM INSIDE WALL, TYPICAL FOR JUNCTION AND ANGLE MANHOLES.
3. JOINT IN PIPE REQUIRED WITHIN 2' OF MANHOLE
4. UNUSED CHANNELS SHALL BE COMPLETELY FILLED WITH GROUT.
5. CONCRETE FOR MANHOLE CONSTRUCTION SHALL CONFORM TO "MINOR CONCRETE" SECTION OF CALTRANS SPECIFICATIONS. PRIME ALL JOINTS AND SET IN DOUBLE BEAD OF KENT SEAL JOINT SEALING COMPOUND OR APPROVED EQUAL.
6. USE CIRCULAR METAL FORM TO SHAPE FULL DEPTH GROOVE IN BASE TO MATCH TONGUE ON RISER SECTION.
7. MAXIMUM DEPTH OF COVER AND GRADE RINGS SHALL BE 18" AND MINIMUM DEPTH OF COVER SHALL BE COVER PLUS A 3" GRADE RING.
8. FLOW LINES SHALL HAVE 1/10' DROP OR AS INDICATED ON PLANS.
9. MANHOLES WITH DROPS SHALL BE EPOXY COATED.
10. SET CAST IRON FRAME IN CONCRETE COLLAR.
11. A 5 FOOT STUB OUT IS REQUIRED AT DEAD END MANHOLES WITH POTENTIAL FOR FUTURE DEVELOPMENT. WHEN A 5' STUBOUT IS PROVIDED DISREGARD NOTE 3.

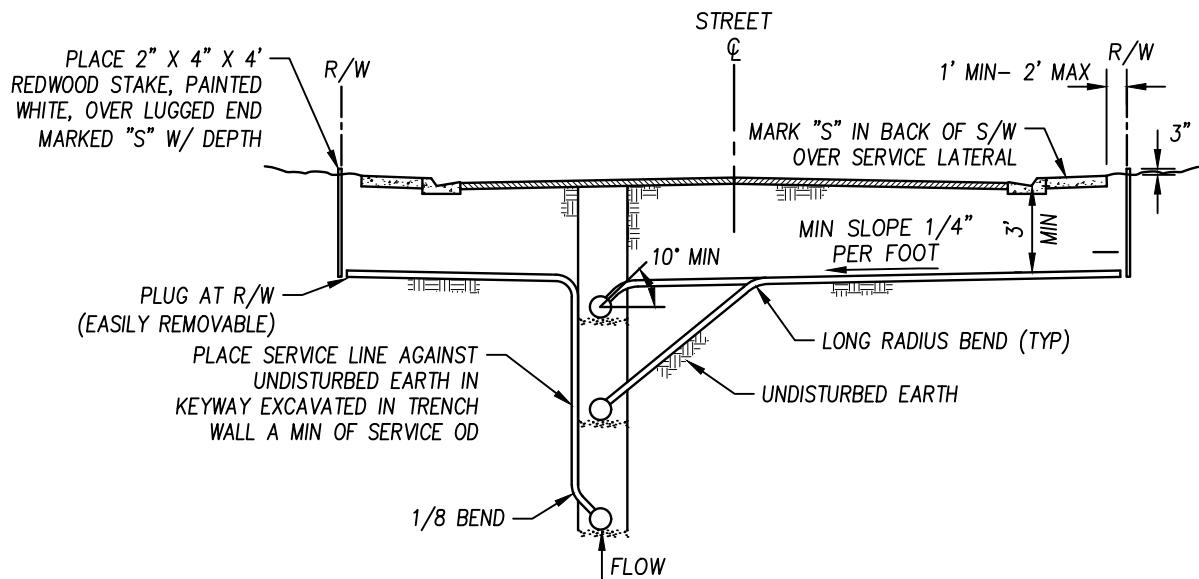
NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
<b>SANITARY SEWER MANHOLE</b>			
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS		SS-01	
			



NOTES:

1. OUTSIDE AND INSIDE DROP INLETS ONLY TO BE USED UPON APPROVAL FROM THE CITY ENGINEER
2. INSIDE DROP PIPING SHALL BE PVC PIPE, SCH 40 AND SHALL USE DROP BOWL PRODUCED BY RELINER DURAN, INC. OR APPROVED EQUAL. ALL DROP CONNECTION PIPE AND FITTING TO BE SAME SIZE AS ENTERING PIPE.
3. PRIME AND CEMENT ALL JOINTS AS RECOMMENDED BY THE MANUFACTURER.
4. ATTACH DROP BOWL AND EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH STAINLESS STEEL 3/8" X 1/4" RAMSET/RED HEAD BOLTS. PRE-ROTO DRILL AND SET BOLTS IN PLACE WITH EPOXY PASTE. EPOXY PASTE SHALL BE A TWO COMPONENT 100% SOLID SYSTEM. EPOXY SHALL BE SKIADUR 31 HI-MOD GEL BY SIKA CORPORATION OR APPROVED EQUAL.
5. DROP BOWL MODEL "A-4" SHALL BE USED FOR ALL LINES UP THROUGH FULL 6" INLETS. DROP BOWL MODEL "A-6" SHALL BE USED FOR ALL 8" INLETS. DROP BOWLS "B-8" SHALL BE USED FOR ALL 10" INLETS. DROP BOWL MODEL "B-10" SHALL BE USED FOR ALL 12" INLETS.

NO.	REVISION DATE	BY	DROP MANHOLES	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			SS-02	



TAPPING SADDLE (CONNECTED TO PIPE W/STAINLESS STEEL STRAP) SEALITE OR CITY APPROVED EQUAL. ALL NEW CONSTRUCTION SHALL USE MANUFACTURED WYES.

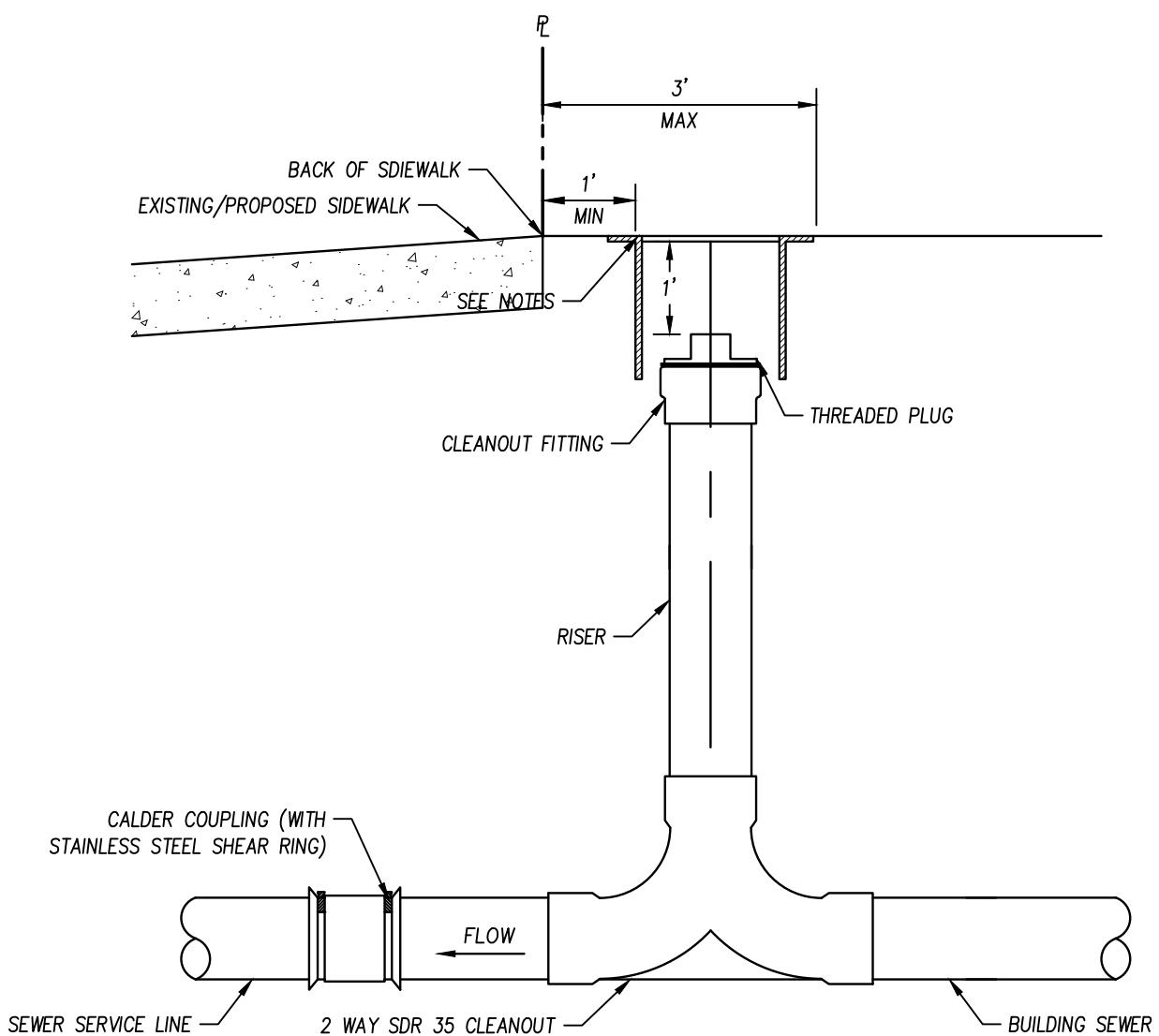
#### CONNECTION DETAILS

#### NOTES:

1. ALL SERVICE LINES SHALL BE 4" FOR RESIDENTIAL AND 6" FOR COMMERCIAL UNLESS OTHERWISE NOTED.
2. SEWER SERVICES SHALL HAVE SAME BEDDING AND BACKFILL AS SEWER MAINS.
3. CONTRACTOR SHALL USE THE MOST APPROPRIATE TYPE CONNECTION FOR THE PARTICULAR SITUATION ENCOUNTERED.
4. SERVICE SEWER SHALL HAVE A MINIMUM 3' COVER MEASURED FROM FINISHED GRADE AT PROPERTY LINE WHENEVER LATERAL DEPTH AND SERVICE SEWER SLOPE (MIN 1/4" PER FOOT) PERMIT. UNLESS OTHERWISE NOTED OR AS APPROVED BY ENGINEER.
5. WHEN THE LATERAL SEWER DEPTH IS SUCH THAT MINIMUM COVER AT PROPERTY LINE CANNOT BE MET, THE MINIMUM SLOPE OF 1/4" PER FOOT SHALL GOVERN THE COVER.
6. MITER FITTING SHALL BE MAX 45°.
7. MINIMUM DEPTH OF COVER SHALL BE INCREASED TO 4'-6" WHERE A WATER MAIN IS TO BE INSTALLED AT BACK OF SIDEWALK AS A PART OF THE SUBDIVISION IMPROVEMENTS. IN SUCH CASES, THEIR SERVICE SHALL BE EXTENDED TO A MINIMUM OF 7' BACK OF THE SIDEWALK; CLEANOUT TO GRADE SHALL REMAIN WITHIN 3' OF BACK OF SIDEWALK.
8. SEWER SERVICES ORIGINATING FROM THE SEWER MAINS 14 FT AND GREATER IN DEPTH SHALL HAVE THE CROTCH OF THE SDR-35 "WYE" FITTING FILLED WITH CONCRETE.
9. ANY REPAIRS DONE TO SERVICES OR MAINS SHALL HAVE COMPRESSION COUPLINGS WITH STAINLESS STEEL SHEAR RINGS.
10. FOR NEW CONSTRUCTION, MANUFACTURED WYES SHALL BE INSTALLED.
11. CUSTOMERS OWN AND ARE RESPONSIBLE FOR MAINTAINING THE LATERAL FROM THE SEWER MAIN TO THE BUILDING IT SERVICES.

NO.	REVISION DATE	BY	SANITARY SEWER SERVICE & CONNECTION	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
			CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS	SS-03





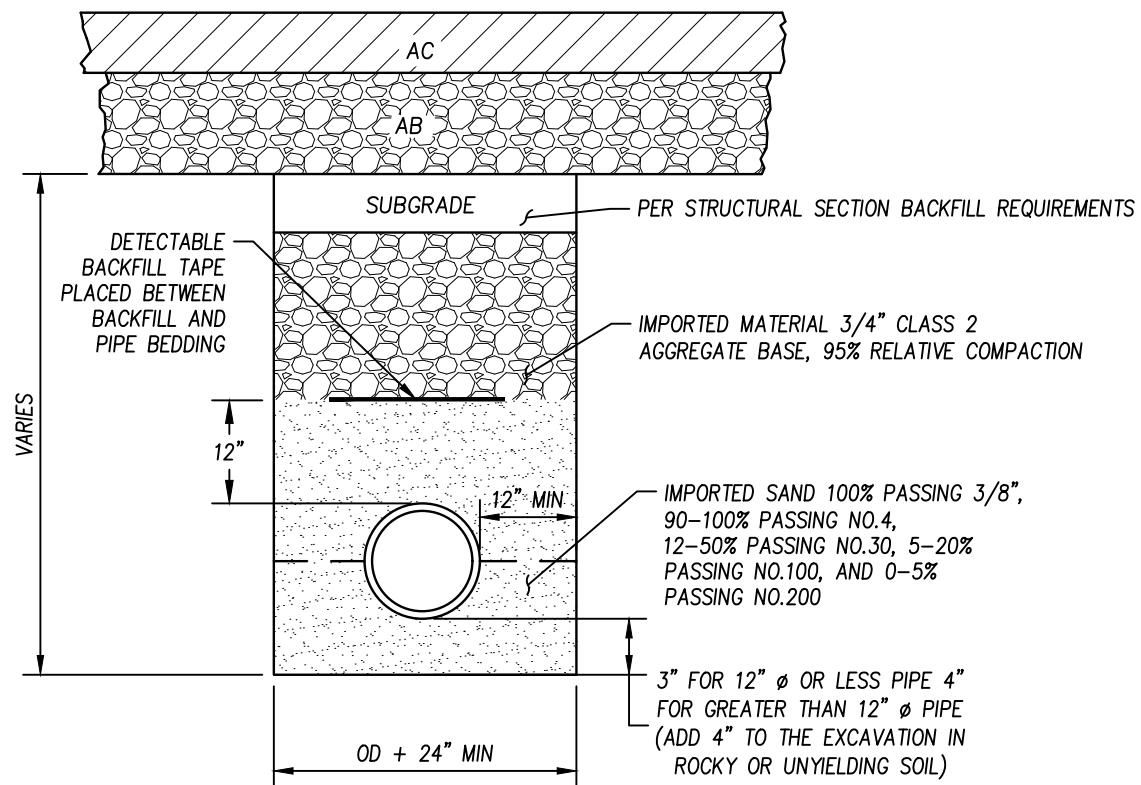
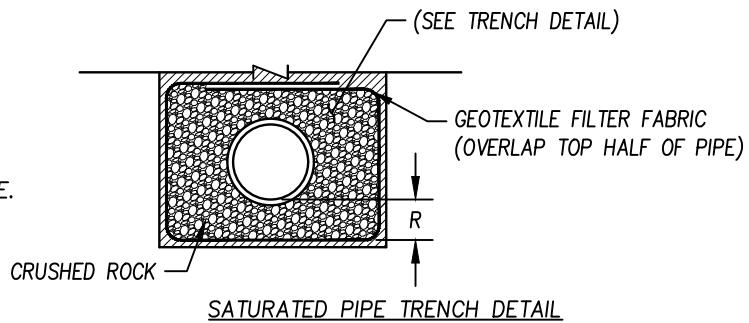
NOTES:

1. WHEN INSTALLED IN DRIVEWAY USE BROOKS 3RT SERIES VALVE BOX, MARKED "SEWER" OR APPROVED EQUAL.
2. WHEN INSTALLED IN LAWN OR PLANTER USE BROOKS 1-SP SERIES VALVE BOX MARKED "SEWER" OR APPROVED EQUAL.
3. IF PROPERTY LINE IS NOT LOCATED AT BACK OF WALK, THE CLEANOUT SHALL BE A MAXIMUM OF 3' FROM THE PROPERTY LINE.

NO.	REVISION DATE	BY	SANITARY SEWER LATERAL CLEANOUT	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER			
CHECKED BY:	D. HARDEN			
SCALE:	NONE			
DATE:	2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			SS-04	

TRENCH BACKFILL REQUIREMENTS:

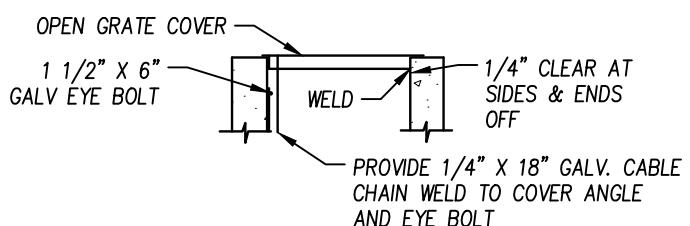
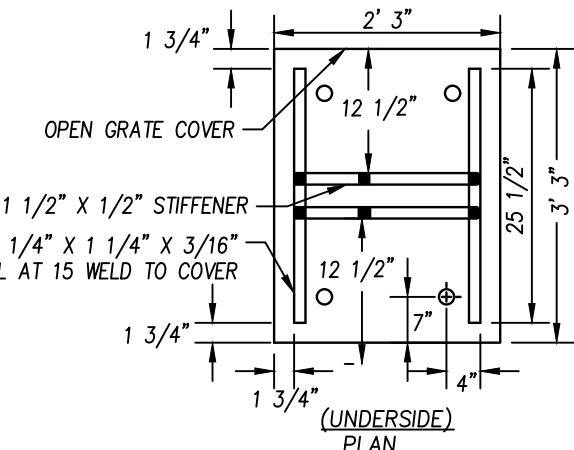
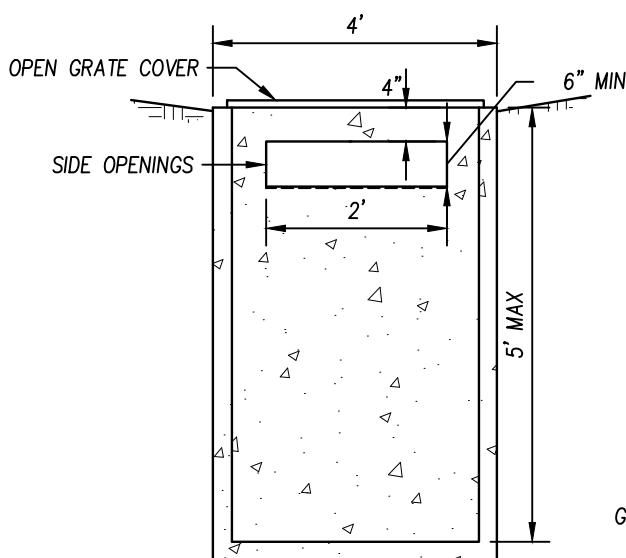
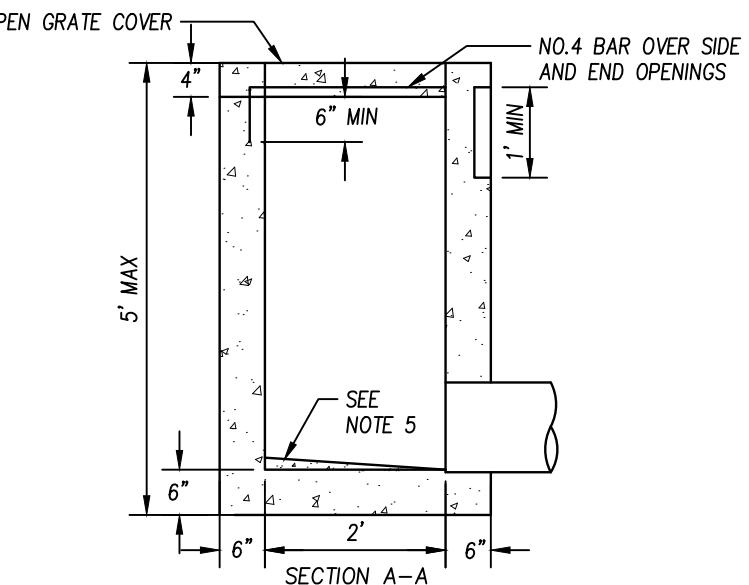
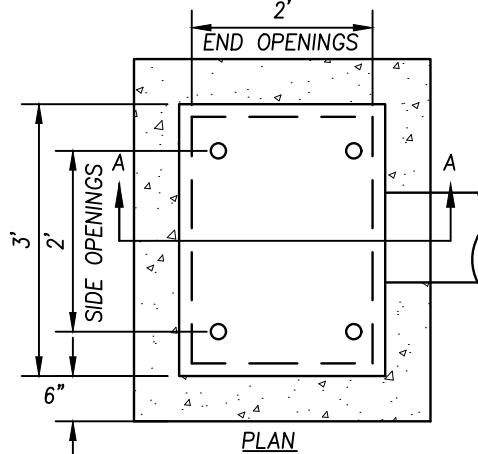
1. REFER TO DETAILS ST-32 AND ST-33 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.



NOTES:

1. BACKFILL SHALL BE MECHANICALLY CONSOLIDATED OR SHOVEL SLICED UNDER THE HAUNCHES OF THE PIPE.
2. SATURATED PIPE TRENCH DETAIL SHALL BE USED WHEN REQUIRED BY CITY ENGINEER.
3. ONE 12" WIDE STRIP OF BACKFILL TAPE SHALL BE USED FOR EVERY 12" PIPE DIAMETER OR FRACTION THERE OF. BACKFILL TAPE SHALL BE GREEN MARKED "SEWER MAIN BURIED BELOW" AND BE APPROVED FOR EXTENDED UNDERGROUND USE.
4. THERE MUST BE A MINIMUM OF 36" COVER FROM THE TOP OF THE PIPE TO THE FINISHED GRADE.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
<b>SEWER MAIN TRENCH AND BACKFILL</b>			
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS		SS-05	



SECTION  
METAL PLATE COVER

NOTES:

1. THIS STRUCTURE TO BE USED ONLY TO PICKUP ON SITE DRAINAGE ON PRIVATE PROPERTY UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER
2. DRAIN INLETS WITHIN A PAVED AREA SHALL HAVE A 12" WIDE COLLAR OF 12" THICK CONCRETE. IF SIDE OPENING IS USED OMIT CONCRETE COLLAR ON SIDE OF OPENING.
3. THE INSIDE SURFACE OF FRONT AND BACK WALLS OF THE CATCH BASIN SHALL NOT DEVIATE MORE THAN 2" OF VERTICAL ALIGNMENT.
4. SLOPE FLOOR 2% TO OUTLET.
5. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS.
6. PROVIDE END OR SIDE OPENINGS AS SHOWN ON PLANS OR CROSS SECTIONS.
7. TOP OF ALL WALLS SHALL BE FINISHED TO A LEVEL PLANE TO PROVIDE EVEN BEARING FOR PLATE COVER.

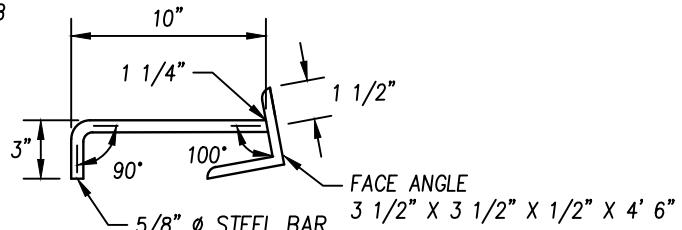
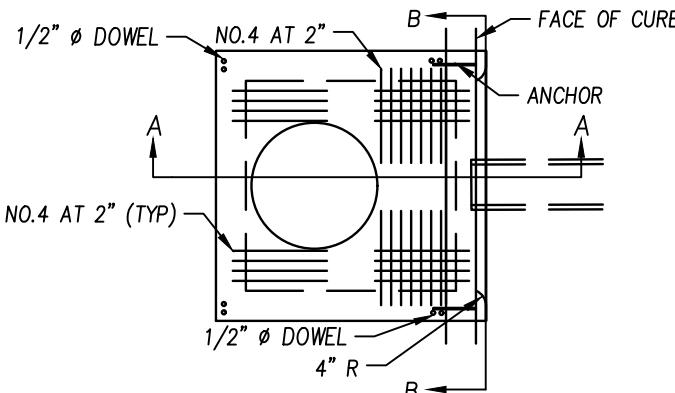
NO.	REVISION DATE	BY
DRAWN BY:	J. GINNEVER	
CHECKED BY:	D. HARDEN	
SCALE:	NONE	
DATE:	2/2/26	

**DROP INLET TYPE F**  
CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

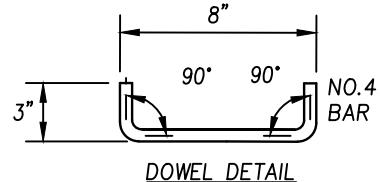
APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



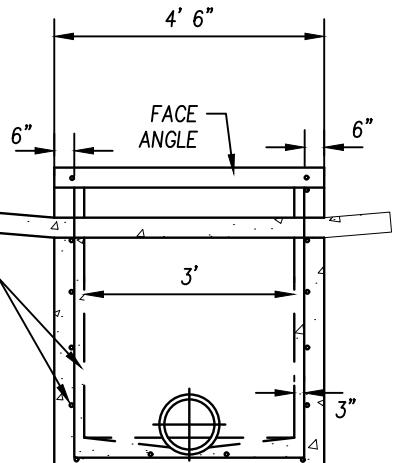
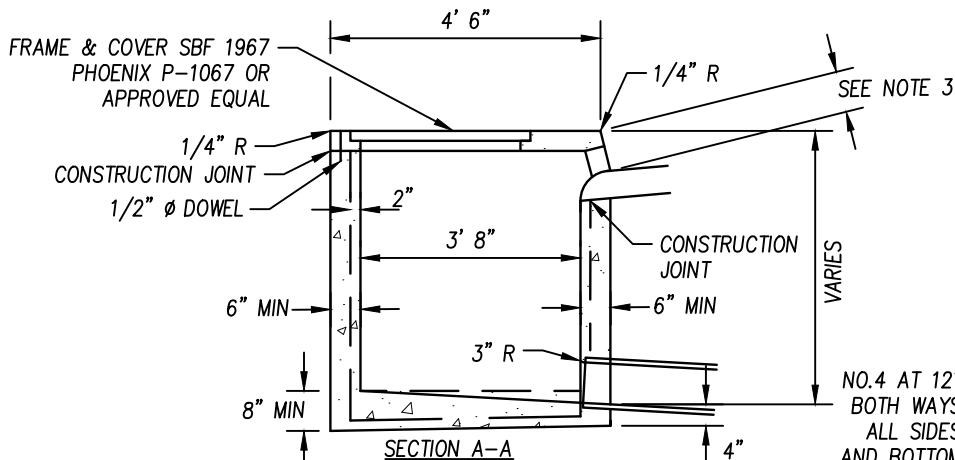
DR-01



FACE ANGLE & ANCHOR DETAIL



DOWEL DETAIL



SECTION B-B

NOTES:

1. CONNECTION PIPES AND OUTLET PIPES MAY BE PLACED IN ANY POSITION AROUND THE WALLS.
2. CURVATURE OF THE LIP AND SIDE WALLS AT GUTTER OPENING SHALL BE FORMED BY CURVED FORMS.
3. CURB FACE HEIGHT (CH) OF DROP INLET SHALL BE THAT OF THE EXISTING CURB PLUS 1 1/4".
4. INSTALL 3' LONG TRANSITION SECTION EACH SIDE OF INLET TO DEPRESS THE GUTTER FLOWLINE 1 1/4" AT THE INLET.
5. MINIMUM CLEAR SPACING BETWEEN FACE OF CONCRETE AND REINFORCING STEEL TO BE 1 1/2". MAXIMUM DEPTH "D" SHALL BE 8'.
6. FACE ANGLE SHALL BE GALVANIZED AFTER FABRICATION ALL SURFACES SHALL BE FREE OF RUST AND OIL AND NEATLY SOLDERED
7. WHEN PRECAST CONCRETE BOXES ARE FURNISHED THE WALL THICKNESS MAY BE 4" WITH REINFORCEMENT AND THE FACE ANGLE MAY 3/8" STOCK.
8. CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS.

STEEL LIST FOR TOP	
DESCRIPTION	REQ'D
NO.4 BAR 4' 4"	7
NO.4 BAR 3' 11"	8
NO.4 BAR 1' 7"	3
FACE ANGLE 4' 6"	1
DOWELS	4
FRAME & COVER	1

NO.	REVISION DATE	BY
DRAWN BY:	J. GINNEVER	
CHECKED BY:	D. HARDEN	
SCALE:	NONE	
DATE:	2/2/26	

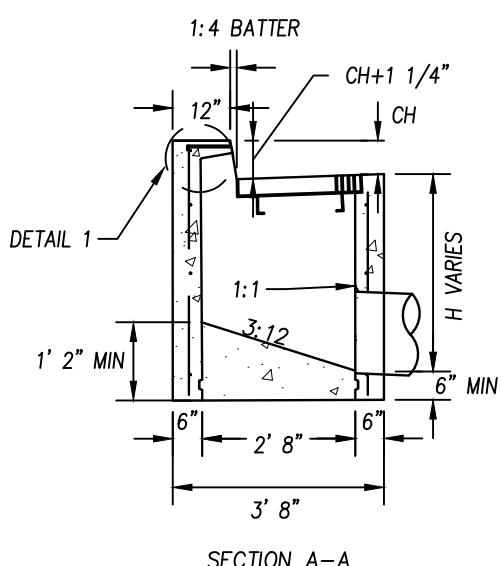
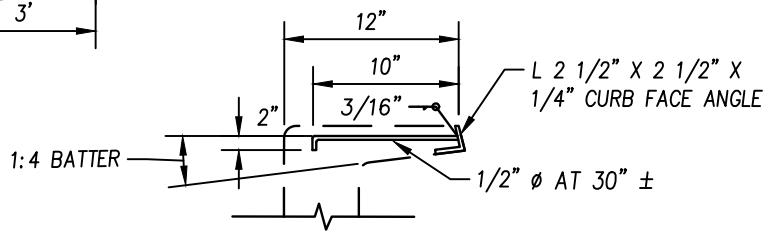
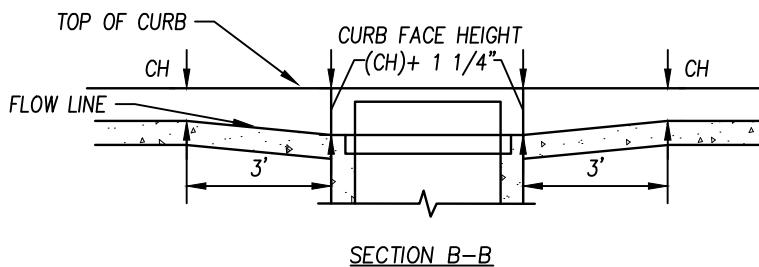
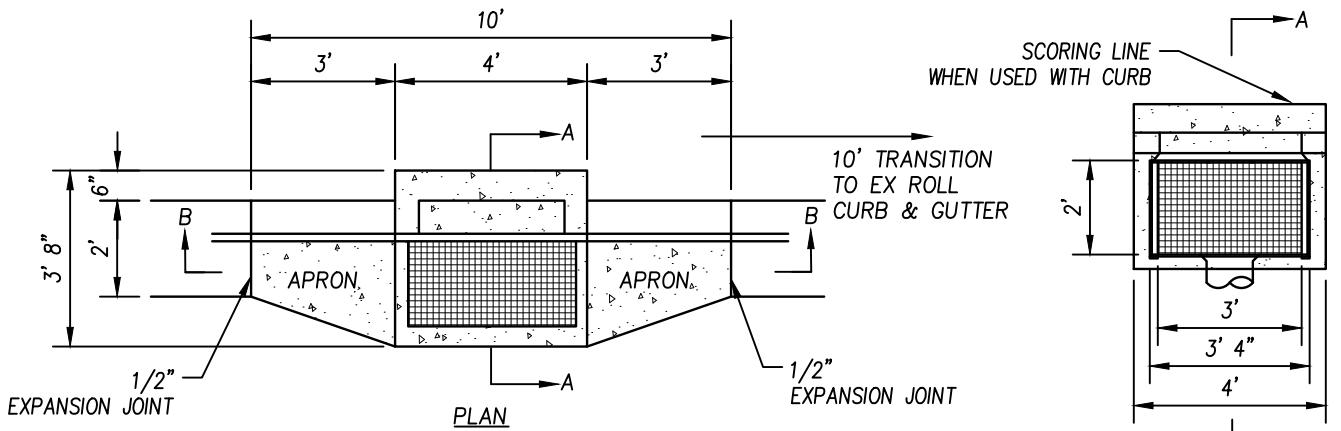
## TYPE 2 DROP INLET

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



DR-02



NOTES:

1. "H" SHALL NOT EXCEED 8' MAXIMUM.
2. REINFORCING STEEL IN WALLS SHALL BE NO.4 BARS AT 18" ± CENTERS PLACED 1 1/2" CLEAR TO INSIDE OF BOX UNLESS OTHERWISE SHOWN.
3. FRAME AND GRATE SHALL BE CALTRANS TYPE 24-B OR EQUAL, GALVANIZED.
4. PIPE(S) CAN BE PLACED IN ANY WALL.
5. CURB SECTION SHALL MATCH ADJACENT CURB.
6. BASIN FLOORS SHALL HAVE WOOD TROWEL FINISH AND A MINIMUM SLOPE OF 3:12 FROM ALL DIRECTIONS TOWARD THE OUTLET PIPE.
7. ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED.
8. WHEN INSTALLED IN EXISTING ROLLED CURB & GUTTER WARP TO VERTICAL CURB IN 10' TRANSITION.
9. WHEN APRON IS CONSTRUCTED WITH DROP INLET EXTEND NO.4 SIDEWALL REBAR 12" INTO TAPERED GUTTER PAN.
10. CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS. DELETE APRON IN AREAS WITH NO CURB AND GUTTER
11. THE CITY OF GRIDLEY WILL ACCEPT TYPE GO INLETS THAT MEET THE MOST RECENT CALTRANS SPECIFICATIONS.

NO.	REVISION DATE	BY
DRAWN BY:	J. GINNEVER	
CHECKED BY:	D. HARDEN	
SCALE:	NONE	
DATE:	2/2/26	

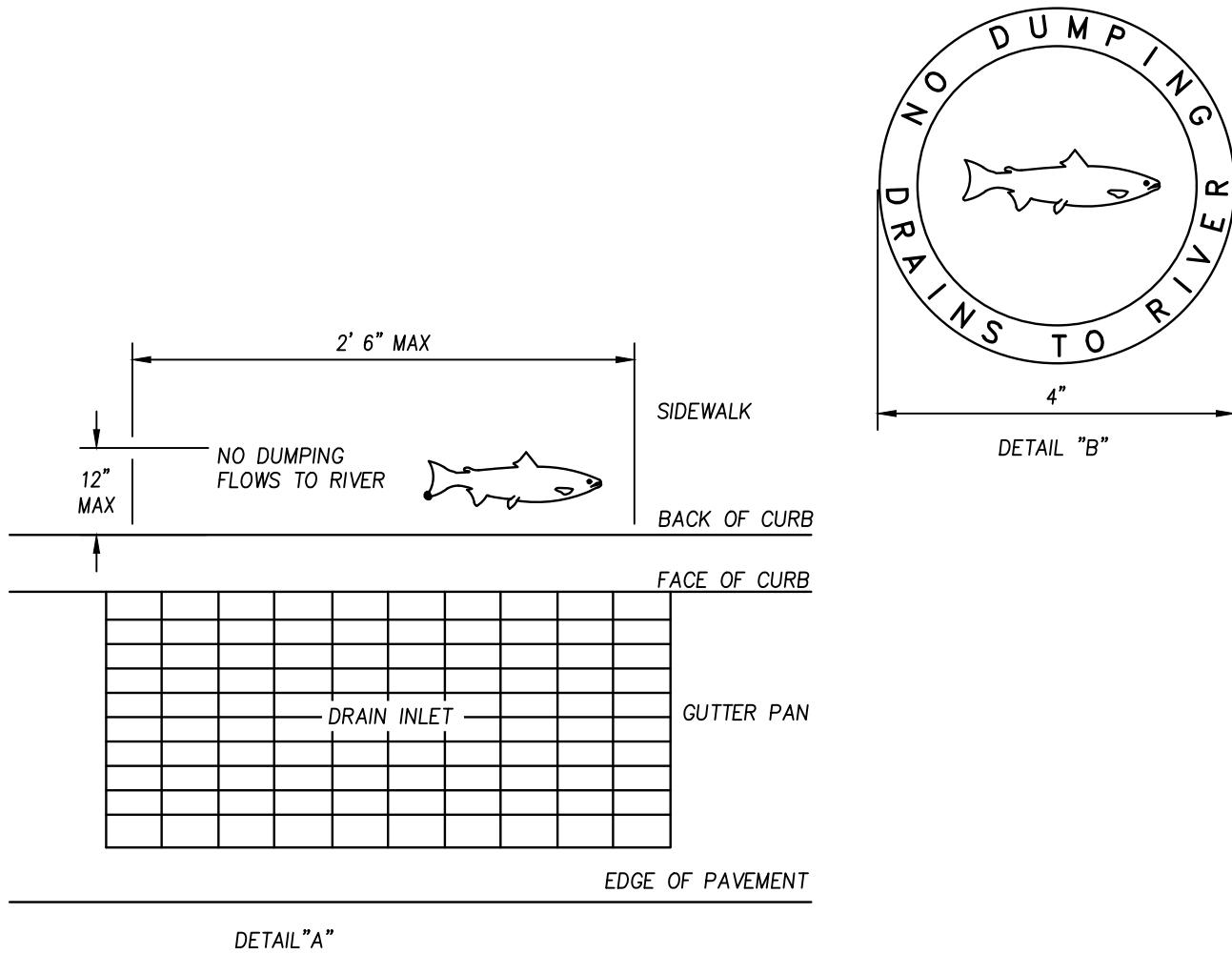
## TYPE GO INLET

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



DR-03



NOTES:

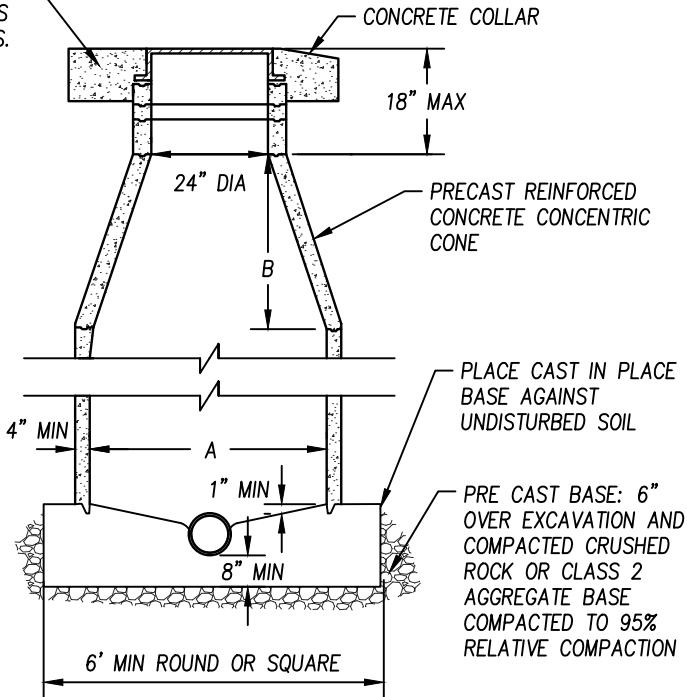
- DETAIL "A" LETTERING SHALL BE 1 1/4" TO 1 1/2" HIGH. THE MESSAGE AND SYMBOL SHALL BE DEPRESSED 1/8" TO 1/4" INTO THE CONCRETE. THE FISH SYMBOL SHALL BE A MINIMUM 1/8" TO 1/4" INTO THE CONCRETE. THE FISH SYMBOL SHALL BE A MINIMUM OF 11" AND 3 1/2" HIGH.
- DETAIL "A" SHALL BE PRE-APPROVED BY THE CITY ENGINEER PRIOR TO ITS USE.
- DETAIL "A" SHALL APPLY TO ALL DRAIN INLET DESIGNS. WHERE THE SIDEWALK DOES NOT ADJOIN THE BACK OF CURB, THE NOTICE SHALL BE STAMPED IN THE CONCRETE BACKUP, BEHIND THE DRAIN INLET. WHERE THE DRAIN INLET IS PLACED IN A "V" GUTTER WITHOUT A CURB INLET, THE NOTICE SHALL BE STAMPED ON ONE SIDE OR THE OTHER, PARALLEL TO THE LENGTH OF THE INLET.
- DETAIL "B" MAY BE PLACED WHERE DETAIL "A" DOES NOT WARRANT INSTALLATION AT THE DISCRETION OF THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE MESSAGE SHALL BE FREE OF BLEMISHES, LEGIBLE AND ACCEPTABLE TO THE CITY ENGINEER.
- "NO DUMPING" PUBLIC NOTICES ARE REQUIRED AT ALL STORM DRAIN INLETS WITHIN THE CITY LIMITS, PUBLIC AND PRIVATE STORM DRAIN IMPROVEMENTS. "DETAIL B" SHALL BE ALMETEK INDUSTRIES MARKER, "ENVIROMARK", STAINLESS MATTE FINISH SD-SP, ITEM NUMBER SD-4, BLUE "NO DUMPING DRAINS TO RIVER" WITH INSTALLATION METHODS 3, 4, 6, 8, OR 9, OR APPROVED EQUAL MAY BE INSTALLED PER MANUFACTURERS' RECOMMENDATIONS.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
<b>NO DUMPING PUBLIC NOTICE</b>			
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			DR-04
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			

TABLE OF DIMENSIONS

A	B
48"	18"
60"	30"
72"	42"
84"	54"

"MINOR CONCRETE" AS  
DEFINED IN CALTRANS  
STANDARD SPECIFICATIONS.



DIMENSION "B" IS A MINIMUM DIMENSION  
AND MAY BE GREATER IF DEPTH PERMITS.

RISER SECTIONS, CONES, AND ADJUSTING  
RINGS SHALL CONFORM TO ASTM  
DESIGNATION C-478.

#### DRAIN INLET FRAMES AND COVERS REPLACEMENT:

1. REPLACEMENT OF EXISTING DRAIN INLET FRAME AND COVERS SHALL MEET REQUIREMENT OF THE CALTRANS BICYCLE PROOF GRATE DETAILS.

#### MANHOLE FRAMES AND COVERS:

ALL MANHOLE FRAMES AND COVERS SHALL BE OF CAST IRON OR DUCTILE IRON AND CONFORM TO ASTM DESIGNATION A48, C478 OR ASTM A536 FOR DUCTILE IRON OR, CLASS 30 AND SHALL BE THE FOLLOWING OR APPROVED EQUAL FOR THE INDICATED SIZE AND APPLICATION:

1. 24" FRAME AND SLOTTED COVER: D & L SUPPLY # A-1021 (STANDARD 6 5/8" HIGH) OR SOUTH BAY FOUNDRY # D1920; "D" SHALL BE EMBOSSED IN CENTER.
2. 36" FRAME AND COVER: D & L SUPPLY # A-1462 OR SOUTH BAY FOUNDRY #D1907; "D" SHALL BE EMBOSSED IN CENTER.
3. 24" FRAME AND SLOTTED COVER: D & L SUPPLY # C-2660 (# A-1021 WITH SLOTTED COVER), OR SOUTH BAY FOUNDRY # 1920 (SPECIFY SLOTTED COVER).
4. SHORT 24" FRAMES AND COVERS: D & L SUPPLY # A-1022 (5") AND # A-1023 (3"); SOUTH BAY FOUNDRY # 1922 (5") AND # 1923 (3").
5. REXUS MANHOLE COVER: SANT-GOBAIN PAM, CDRU60EHDRA, 24" ROUND LIGHTWEIGHT HINGED, DUCTILE IRON MANHOLE COVER.
6. CRISP BOXED SURVEY MONUMENT WITH PLASTIC FORM WITHOUT COMPANY NAME IS AN APPROVED ALTERNATE PER DETAIL ST-27.
7. D&L SUPPLY #C-2660 (6 5/8" HIGH STANDARD CASTING)
8. D&L SUPPLY #C-2661 (5")

#### NOTES:

1. JOINT MAY BE EITHER KEYED OR TONGUE AND GROOVE.
2. TOP OF FRAME SHALL BE 1/8" BELOW ADJACENT PAVEMENT.
3. A 0.1' MINIMUM FALL THROUGH MANHOLE.
4. OD OF PIPE SHALL NOT EXCEED ID OF ITS MANHOLE BARREL.
5. JOINTS SHALL BE MADE WITH EITHER NON-SHRINKING MORTAR OR WITH A PLASTIC SEALING COMPOUND CONFORMING TO FEDERAL SPECIFICATIONS FOR PRESERVATIVE AND SEALING COMPOUNDS.
6. FLAT TOP SLAB SHALL BE USED WHEN SHALLOW PIPE DOES NOT PERMIT USE OF A TAPERED DOME. FLAT TOP MANHOLE SHALL BE APPROVED BY CITY ENGINEER.
7. CITY OF GRIDLEY WILL ACCEPT PRE CAST MANHOLES THAT MEET THE MOST RECENT CALTRANS SPECIFICATIONS.
8. END PIPE 2" FROM INSIDE WALL
9. A 5 FT STUB OUT IS REQUIRED AT DEAD END MANHOLES WITH POTENTIAL FOR FUTURE DEVELOPMENT. WHEN A 5FT STUBOUT IS PROVIDED DISREGARD NOTE 2.

NO.	REVISION DATE	BY
DRAWN BY: J. GINNEVER		
CHECKED BY: D. HARDEN		
SCALE: NONE		
DATE: 2/2/26		

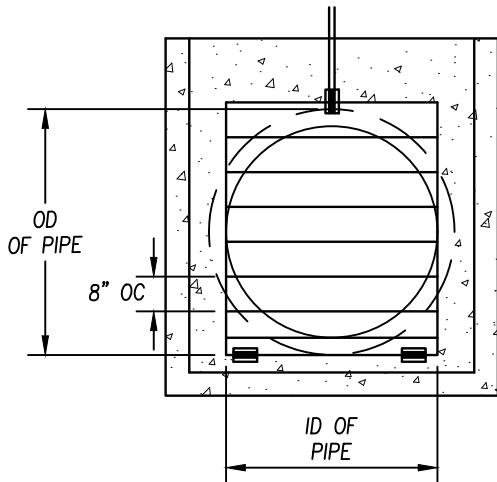
## STANDARD PRECAST MANHOLE

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



DR-05



FASTEN LATCH LINKAGE TO ANCHOR WITH CHAIN AND PADLOCK

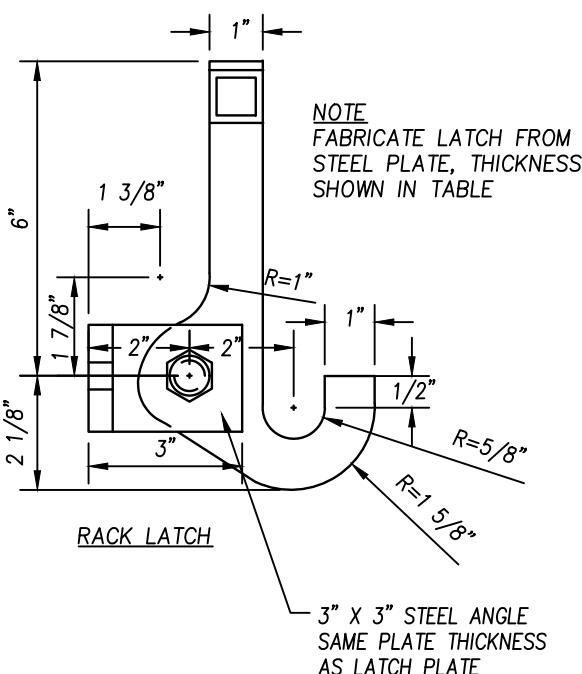
LATCH LINKAGE

RACK LATCH

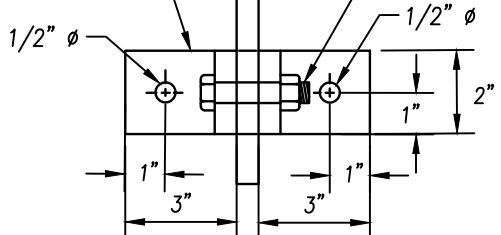
ACCESS CONTROL RACK

HINGE BRACKET

ANCHOR-1/2"Ø STEEL BENT TO 3"Ø AND EMBEDDED 12" INTO HEADWALL



3" X 3" STEEL ANGLE  
SAME PLATE THICKNESS AS LATCH PLATE



PIPE SIZE	RACK BAR SIZE	LATCH PLATE THICKNESS	LATCH LINKAGE SIZE
21"-27"	N0.4	1/4"	1", .095" THICK
30"-36"	N0.6	3/8"	1", .095" THICK
42"-56"	N0.7	1/2"	1", .133" THICK
60"-84"	N0.8	1/2"	1", .133" THICK

NOTES:

1. ENTIRE RACK TO BE WELDED REINFORCING STEEL OR ROUND BARS OF EQUAL DIAMETER WITH HORIZONTAL BARS BEING 8" CENTER TO CENTER.
2. SUFFICIENT ROOM SHALL BE PROVIDED DOWNSTREAM TO LAY RACK FLAT.
3. FASTEN LATCH BRACKET TO HEADWALL WITH 1/2" X 6" BOLTS WITH HEX NUTS, OR 1/2" EXPANSION BOLTS.
4. WHEN RACK IS IN THE CLOSED POSITION, THE BOTTOM RACK BAR SHALL BE TIGHT AGAINST THE TOP OF THE HINGE BRACKET SO THAT THE RACK CANNOT BE LIFTED OFF THE LATCH.
5. FABRICATE HINGE BRACKET FROM N0.4 REBAR.

NO.	REVISION DATE	BY
DRAWN BY:	J. GINNEVER	
CHECKED BY:	D. HARDEN	
SCALE:	NONE	
DATE:	2/2/26	

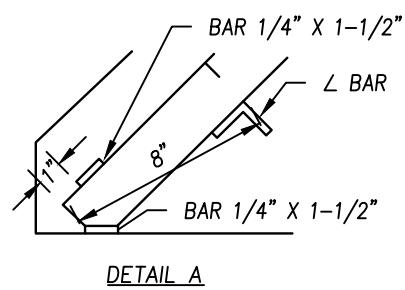
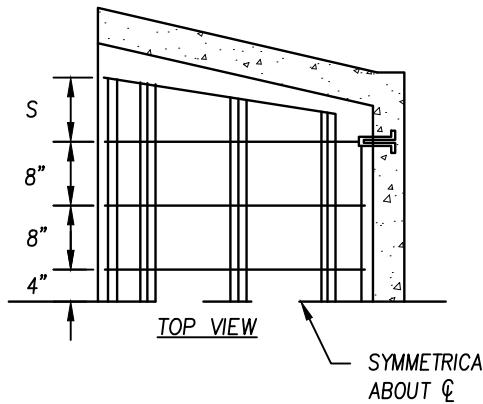
## ACCESS CONTROL & TRASH RACK

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

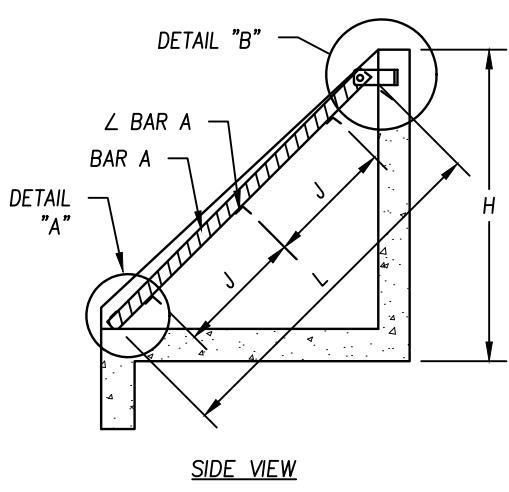
APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



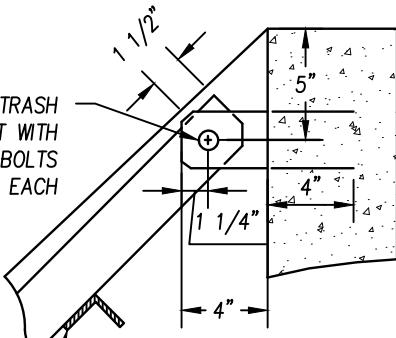
DR-06



DETAIL A



ALL WELDS (TYP)



DETAIL B

TRASH RACK DIMENSIONS

DIA	NUMBER & SIZE		L	J	S	H
	BAR A	L BAR				
33"	8-3/8 X 2 1/2	3-2 X 2 X 1/4	5'-1"	1'-10"	8"	3"-8"
36"	"	"	5'-4"	1'-11"	8"	3"-10"
42"	9-3/8 X 2 1/2	"	5'-11"	2'-3"	9"	4"-4"
48"	"	4-2 X 2 X 1/4	6'-7"	1'-9"	10"	4"-10"
54"	10-3/8 X 3	4-3 X 3 X 1/4	7'-9"	2'-1 1/2"	10 1/2"	5"-8"
60"	11-3/8 X 3 1/2	"	8'-5"	2'-4"	11"	6"-2"

NOTES:

1. THIS TRASH RACK MAY BE USED WITH PIPE INLET STRUCTURES.
2. MATERIAL TO CONFORM TO ASTM DESIGNATION A-36
3. 'S' MAY VARY WITH 'B'. SEE PLATE.
4. ALL FILLET WELDS TO BE 3/16"
5. TWO HINGES REQUIRED FOR 33", 36" & 42" PIPES. THREE HINGES REQUIRED FOR 48", 54" & 60" PIPES.

NO.	REVISION DATE	BY
DRAWN BY:	J. GINNEVER	
CHECKED BY:	D. HARDEN	
SCALE:	NONE	
DATE:	2/2/26	

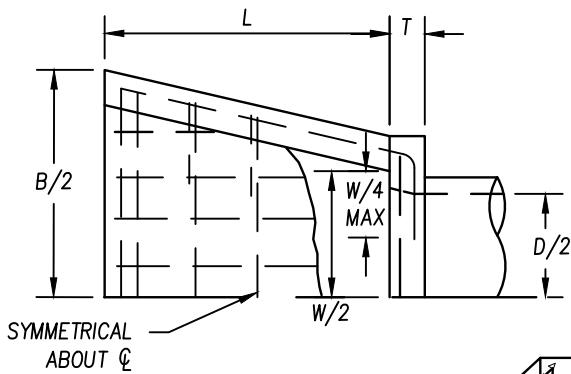
INLET TRASH RACK 33 IN.  
PIPE OR LARGER

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216

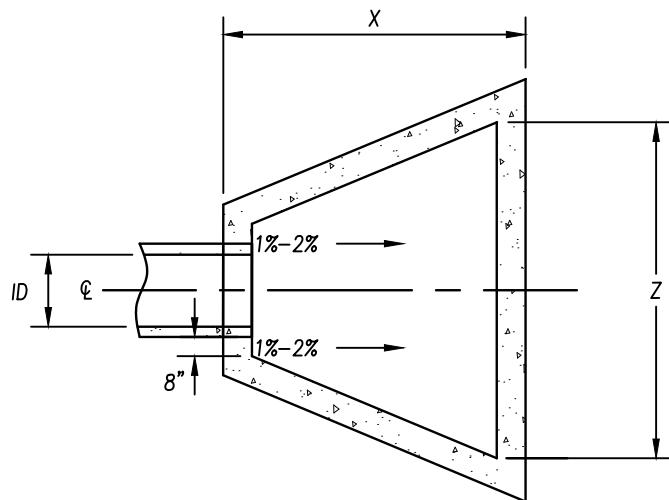
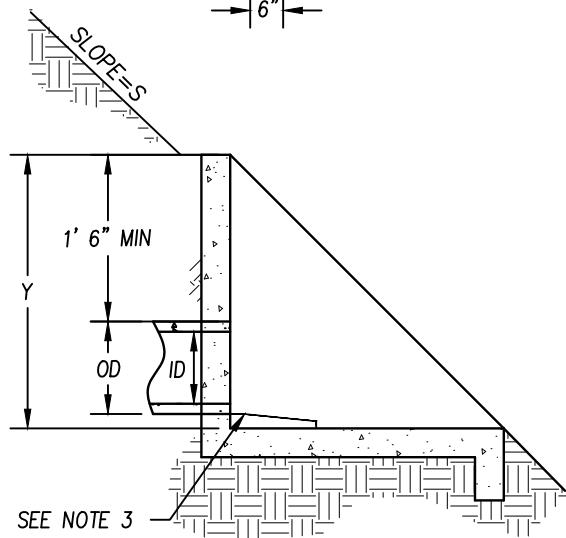
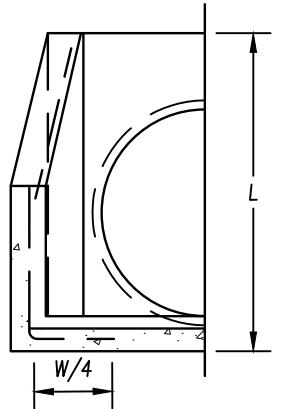
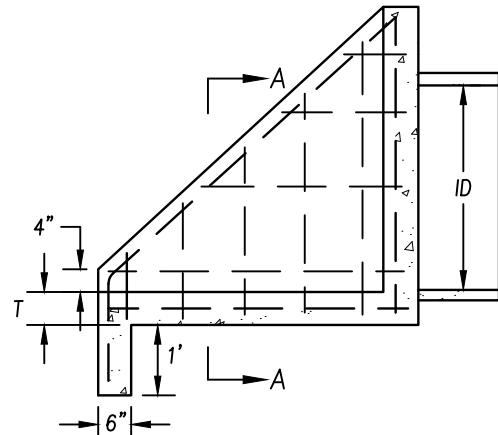


DR-07



DIMENSIONS & REINFORCING

ID	W	B	L	T	ALL REINFORCING
33"	3'-5"	5'-3"	4'-0"	6"	N0.5 @12"
36"	3'-8"	5'-8"	4'-2"	6"	N0.5 @12"
42"	4'-4"	6'-4"	4'-8"	6"	N0.5 @12"
48"	4'-10"	7'-2"	5'-2"	8"	N0.6 @12"
54"	5'-4"	8'-0"	6'-0"	8"	N0.6 @12"
60"	6'-0"	8'-10"	6'-6"	8"	N0.6 @12"



NOTES:

1. "B" MAY BE REDUCED IF REQUIRED BY CHANNEL DIMENSIONS
2. REINFORCING BAR SPACING SHOWN IS MAXIMUM SPACING.
3. ALL CONCRETE TO BE "MINOR CONCRETE" AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS.
4. SEE DR-06 FOR TRASH RACK DETAIL.
5. HEADWALL DESIGN MUST MEET THE FOLLOWING CRITERIA:
  - A.  $X = S*Y$  AND  $X \geq ID+6(FT)$
  - B.  $Z = 4* ID + 2/3*ID$
6. ALL CONCRETE SHALL BE MINIMUM 8" THICK
7. DESIGN ENGINEER SHALL PROVIDE A REBAR SCHEDULE FOR HEADWALLS LESS THAN 4' IN HEIGHT
8. STRUCTURAL CALCULATIONS SHALL BE SUBMITTED FOR HEADWALLS 4' OR GREATER IN HEIGHT

NO.	REVISION DATE	BY
DRAWN BY:	J. GINNEVER	
CHECKED BY:	D. HARDEN	
SCALE:	NONE	
DATE:	2/2/26	

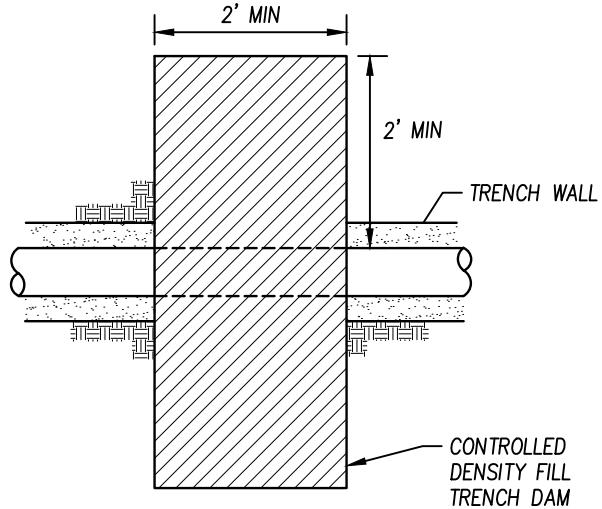
PIPE INLET AND OUTLET  
STRUCTURES

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



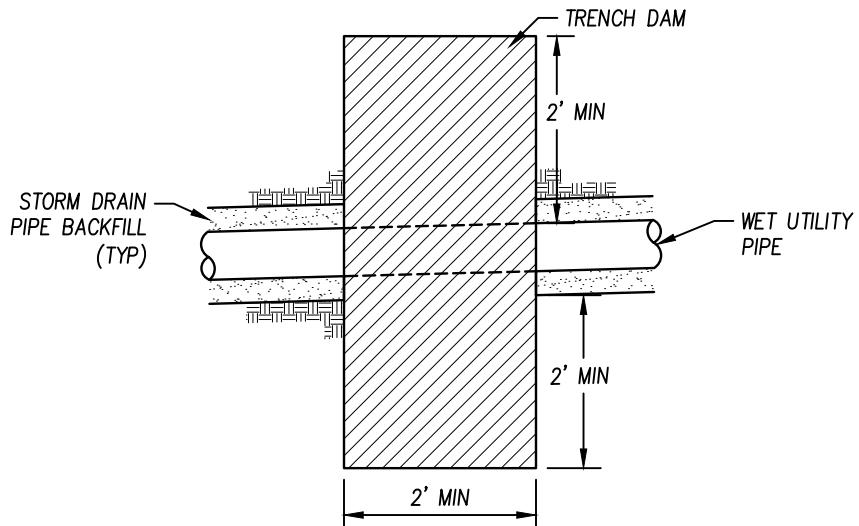
DR-08



PLAN VIEW

NOTE:

TRENCH DAM SHALL BE CONSTRUCTED OF CONTROLLED DENSITY FILL.



PROFILE VIEW

NOTE:

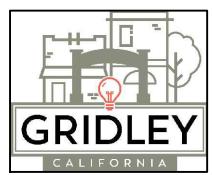
TRENCH DAMS MAY BE REQUIRED WHEN GROUNDWATER IS ENCOUNTERED.

NO.	REVISION DATE	BY
DRAWN BY: J. GINNEVER		
CHECKED BY: D. HARDEN		
SCALE: NONE		
DATE: 2/2/26		

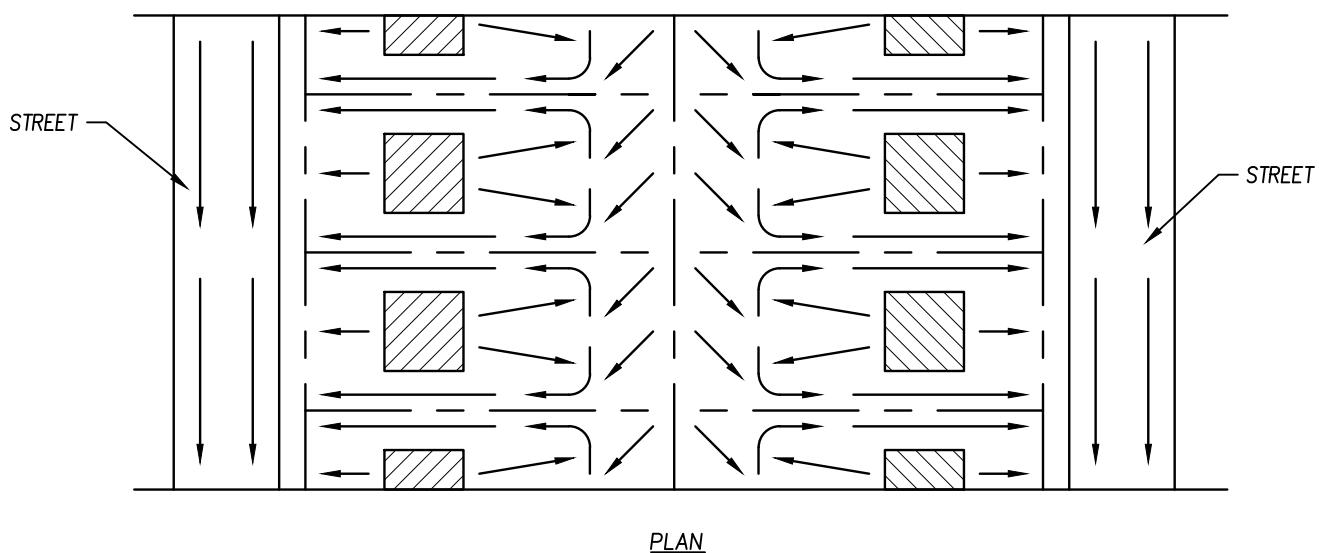
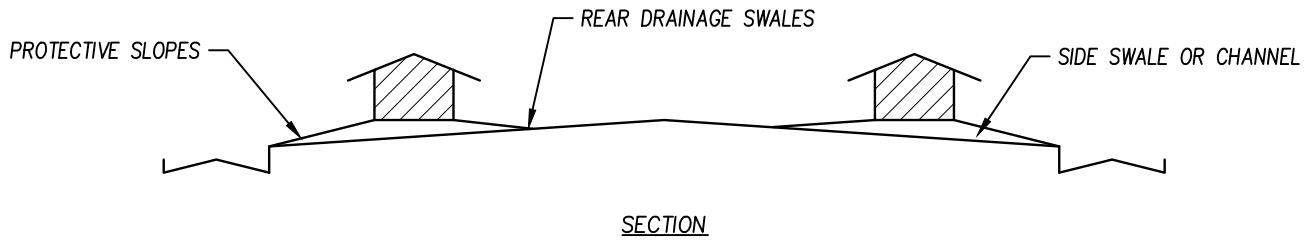
## TRENCH DAM

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216

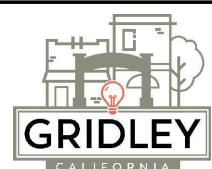


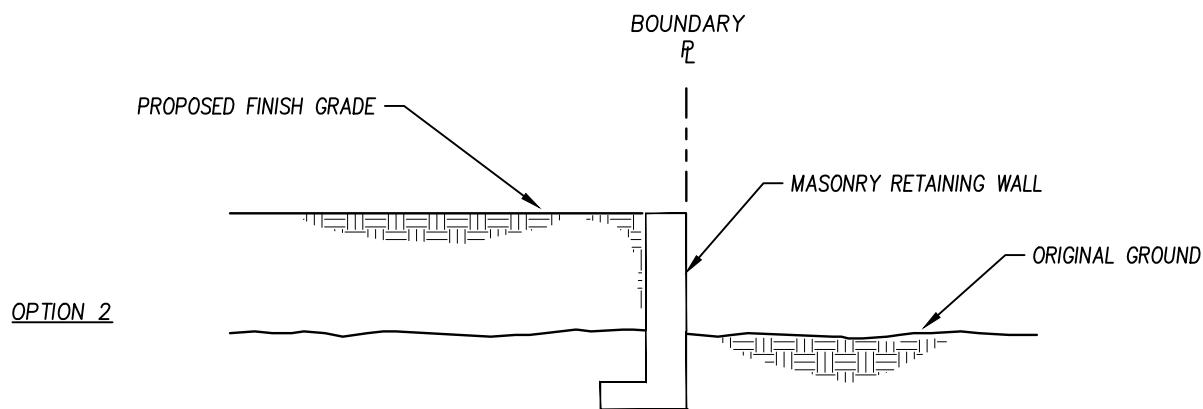
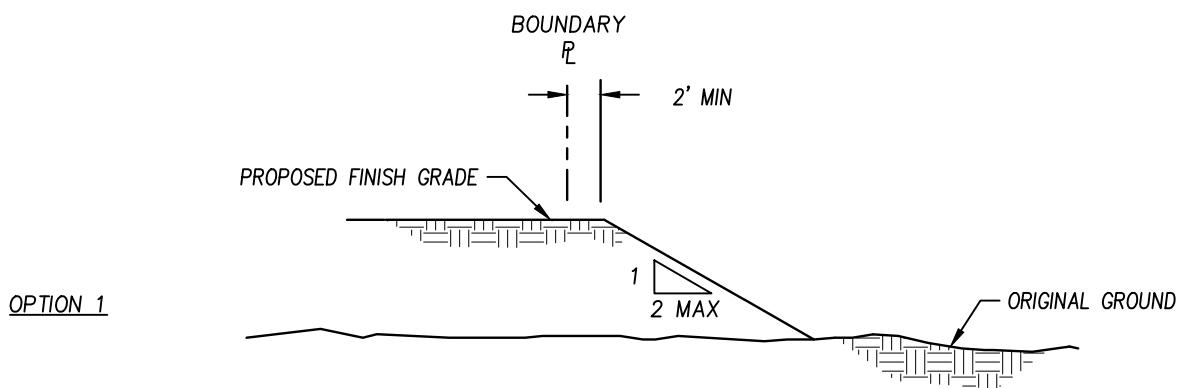
DR-09



NOTES:

1. LOTS CAN BE GRADED AS A PAD WITH A MINIMUM 1% GRADE TOWARD THE STREET -OR- LOTS CAN BE GRADED FLAT WITH DRAINAGE DITCHES EXTENDING THE LENGTH OF THE SIDE LOT LINE WITH A MINIMUM 1% GRADE TOWARD THE STREET.
2. ANY OTHER GRADING DESIGNS MUST BE APPROVED BY THE CITY ENGINEER.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY: J. GINNEVER			
CHECKED BY: D. HARDEN			
SCALE: NONE			
DATE: 2/2/26			
<b>RESIDENTIAL LOT GRADING</b>			 <b>GRIDLEY</b> CALIFORNIA
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			GR-01



NOTES:

1. A NOTARIZED RIGHT OF ENTRY IS REQUIRED FROM ADJACENT PROPERTY OWNER FOR OPTION 1.
2. CONDITIONS OTHER THAN LISTED BELOW MUST BE APPROVED BY THE CITY ENGINEER

SLOPE	MAX HEIGHT
2:1	4'
3:1	4.1'-6"

SEE NOTE 2\*

3. RETAINING WALLS MEASURING OVER 48" AS PER U.B.C & C.B.C FROM BOTTOM OF FOOTING TO TOP OF WALL REQUIRE STRUCTURAL CALCULATIONS.

NO.	REVISION DATE	BY
DRAWN BY: J. GINNEVER		
CHECKED BY: D. HARDEN		
SCALE: NONE		
DATE: 2/2/26		

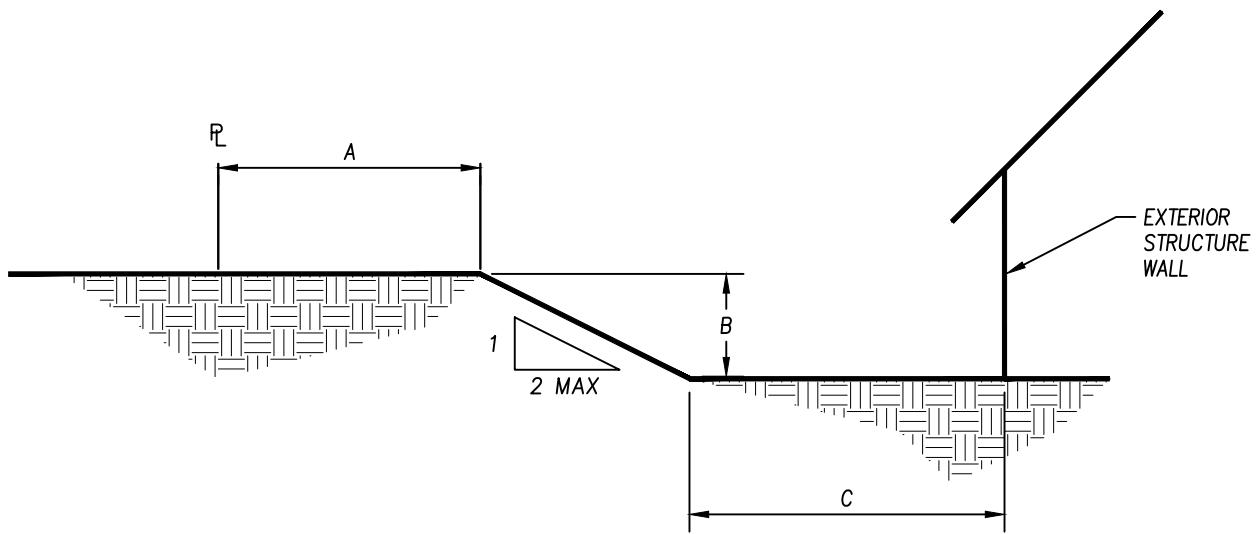
**EXTERIOR PERIMETER  
PROPERTY LINE GRADING**

**CITY OF GRIDLEY**  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



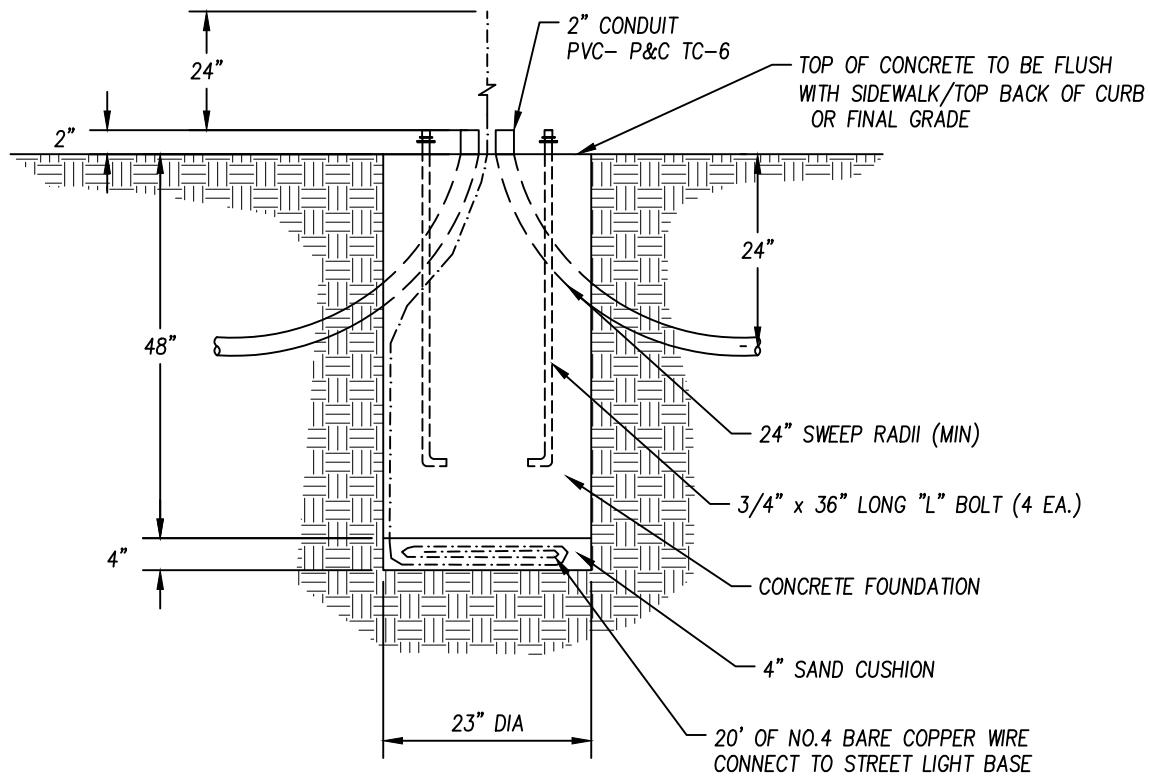
**GR-02**



NOTES:

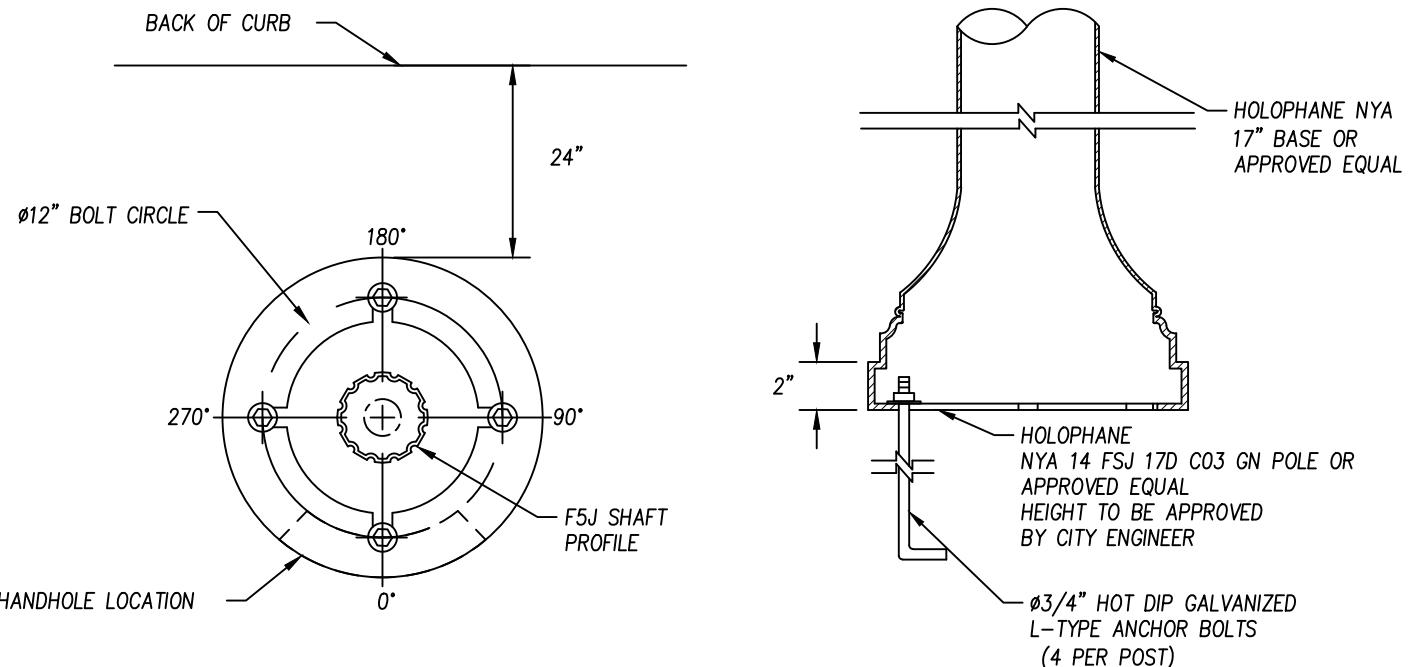
1. WHEN "B" IS LESS THAN OR EQUAL TO 0.5 FEET, "A" = 1.0 FEET.
2. WHEN "B" IS GREATER THAN 1/2', A RETAINING WALL IS REQUIRED OR A STANDARD LOT SETBACK GUARANTEE PROVIDED. IN SUCH CASE, "A" SHALL EQUAL 2.0 MIN FEET AND "C" SHALL BE A MINIMUM OF 3.0 FEET.

NO.	REVISION DATE	BY	APPROVED BY: DAVID HARDEN  CITY ENGINEER RCE 84216
DRAWN BY:	J. GINNEVER		
CHECKED BY:	D. HARDEN		
SCALE:	NONE		
DATE:	2/2/26		
<b>INTERIOR PROPERTY LINE GRADING</b>			<b>GR-03</b>
CITY OF GRIDLEY DEPARTMENT OF PUBLIC WORKS			



NOTE:

LUMINARE SHALL BE HOLOPHANE GRANVILLE III  
LED OR APPROVED EQUAL



NO.	REVISION DATE	BY
DRAWN BY:	J. GINNEVER	
CHECKED BY:	D. HARDEN	
SCALE:	NONE	
DATE:	2/2/26	

STREET LIGHT DETAIL

CITY OF GRIDLEY  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:  
DAVID HARDEN  
  
CITY ENGINEER  
RCE 84216



MS-1