

# **VERTICAL TRAFFIC CALMING**

## **INVITATION TO BID NO. 2023C007**



**Municipality of Anchorage  
Public Works Department  
Project Management & Engineering  
Po Box 196650  
Anchorage, AK 99519**

**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

MASTER INDEX

- I. INVITATION TO BID
- II. SPECIAL PROVISIONS
- III. SUBMITTAL LIST
- IV. EQUAL EMPLOYMENT OPPORTUNITY SPECIAL PROVISIONS
- V. MINIMUM RATES OF PAY
- VI. CONTRACT
- VII. CONTRACT PERFORMANCE AND PAYMENT BOND
- VIII. CERTIFICATE OF INSURANCE
- IX. BID BOND
- X. BIDDER'S CHECKLIST & RESPONSIBLE BIDDER QUESTIONNAIRE
- XI. BID PROPOSAL
- XII. PLANS (10 SHEETS)

**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**I**

**INVITATION TO BID**



# MUNICIPALITY OF ANCHORAGE PURCHASING DEPARTMENT

Invitation to Bid

**No. 2023C007**

Sealed bids will be received in accordance with the time schedule shown below by the Municipality of Anchorage at the Purchasing Department, 632 W. 6th Ave., Suite 520, Anchorage, Alaska 99501 for:

## VERTICAL TRAFFIC CALMING

The Work that is presented in the Bid Proposal for this Contract consists of approximately 970 S.Y. of Remove Pavement; 260 L.F. of Grading Existing Surfaces; 110 Tons of A.C. Pavement; 3 Asphalt Flat Top Speed Humps; 8 Asphalt Speed Cushions; 182 S.F. of Standard Sign; and other related work.

ESTIMATED CONSTRUCTION COST: **Between: \$1,000,000 - \$3,000,000**

Site Visit: N/A

Pre-Bid Conference: N/A

Questions Due: 12:00 P.M. Local Time, February 21, 2023

Bid Opening: 2:00 P.M. Local Time, March 2, 2023

**All Pre-Bid Conferences and/or Bid Openings may be attended in person or via conference call at this number (907) 343-6089. You may call in five (5) minutes before any scheduled conference. EMAILED BIDS WILL NOT BE ACCEPTED.**

**ALL QUESTIONS SHALL BE SUBMITTED PRIOR TO THE QUESTION DUE DATE THIS WILL BE THE FINAL OPPORTUNITY TO ASK QUESTIONS OR REQUEST CLARIFICATIONS.**

Requests for interpretation or clarification of the bidding Documents shall be made in writing to the Purchasing Office ([wwpur@muni.org](mailto:wwpur@muni.org)). Please reference the Invitation to Bid Number & Project Title. Do not contact the specified department directly.

To maintain the project schedule, Interpretations, corrections, or changes to the Bidding Documents shall be made by Addendum and shall not be binding unless included in the Addendum. It is your responsibility to periodically check the website for addenda.

Municipality of Anchorage  
ITB: 2023C007

Plans, specifications and contract documents may be examined and will be available for pickup at 632 W. 6th Ave., Suite 520, Anchorage, AK, Monday through Friday 8:00 A.M. until Noon and 1:00 P.M. until 5:00 P.M. These documents are available for sale on a non-refundable basis at **\$35.00** per set (**cash or check only**).

Fees stated above include parcel post charges (1st class mail). Should expedited handling be desired, Federal Express or equivalent will be utilized on a reverse billing basis only.

The Municipality of Anchorage reserves the right to reject any and all bids and to waive any informalities in the bids. No bidder may withdraw his bid after the hour set for the opening of bids or before the award of contract unless said award is delayed for a period exceeding forty-five (45) days from the time of the opening.

The Municipality shall not be responsible for bid preparation costs, nor for costs, including attorney fees, associated with any (administrative, judicial or otherwise) challenge to the determination of the lowest responsive and responsible bidder and/or award of contract, and/or rejection of bids. By submitting a bid, each bidder agrees to be bound in this respect and waives all claims to such costs and fees.

Contracts shall be awarded by written notice issued by the Purchasing Officer to the lowest responsive and responsible bidder; however, preference will be given to local bidders in compliance with Anchorage Municipal Code Section 7.20.040.

The Municipality of Anchorage assumes no responsibility for any interpretations or presentations made by any of its officers or agents unless such interpretations or presentations are made by written addendum to this Invitation to Bid.

Bonding Requirements are per MASS or as per special provisions.

**THE MUNICIPALITY OF ANCHORAGE IS AN "EQUAL OPPORTUNITY EMPLOYER."**

PUBLISH ONE TIME

Date: February 14, 2023

Senior Buyer Assigned to this Project:  
Melanie A Clark

*Chris Hunter*

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Chris Hunter  
Deputy Purchasing Deputy

**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**II**

**SPECIAL PROVISIONS**





# MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT

## 2023 VERTICAL TRAFFIC CALMING

### Project 22-29

#### INDEX TO SPECIAL PROVISIONS

		<u>PAGE</u>
	SECTION 95.01 LOCATION AND SCOPE .....	1
	SECTION 95.02 REFERENCE TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS .....	1
	SECTION 95.03 TIME OF COMPLETION .....	2
	SECTION 95.04 MODIFICATIONS AND/OR ADDITIONS TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS .....	2
A.	DIVISION 10 STANDARD GENERAL PROVISIONS .....	3
	SECTION 10.00 ALL APPLICABLE M.A.S.S. ARTICLES .....	3
	SECTION 10.03 AWARD AND EXECUTION OF CONTRACT .....	3
	Article 3.4 Action on Bids .....	3
	SECTION 10.04 SCOPE OF WORK .....	3
	Article 4.17 Utilities .....	3
	SECTION 10.05 CONTROL OF WORK .....	4
	Article 5.27 Liquidated Damages .....	4
	SECTION 10.06 LEGAL RELATIONS AND RESPONSIBILITIES .....	5
	Article 6.1 Laws to be Observed .....	5
B.	DIVISION 20 STANDARD CONSTRUCTION SPECIFICATIONS FOR EARTHWORK .....	6
	SECTION 20.05 CLEARING .....	6
	Article 5.1 General .....	6
	Article 5.2 Construction .....	6

INDEX TO SPECIAL PROVISIONS (CONT.)

	PAGE
SECTION 20.09 REMOVAL OF PAVEMENT .....	6
Article 9.2 Construction .....	6
C. DIVISION 40 STANDARD CONSTRUCTION SPECIFICATIONS FOR ASPHALT SURFACING .....	7
SECTION 40.01 GENERAL .....	7
Article 1.7 Asphalt Price Adjustment .....	7
SECTION 40.07 PERMANENT ASPHALT FLAT TOP SPEED HUMPS, AND ASPHALT SPEED CUSHIONS .....	8
Article 7.1 General .....	8
Article 7.2 Cross Section Template .....	9
Article 7.3 Material .....	9
Article 7.4 Construction .....	9
Article 7.5 Measurement .....	10
D. DIVISION 70 STANDARD CONSTRUCTION SPECIFICATIONS MISCELLANEOUS .....	11
SECTION 70.12 TRAFFIC MAINTENANCE .....	11
Article 12.6 Public Notice .....	11

**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 AREAS VERTICAL TRAFFIC CALMING**

**Project 22-29**

**SPECIAL PROVISIONS**

**SECTION 95.01 LOCATION AND SCOPE**

All proposed Work is located within the Municipality of Anchorage corporate limits and is more particularly located on the design drawings. The Work included under this Contract consists of but is not limited to the construction of vertical traffic calming devices, including permanent asphalt flat top speed humps and asphalt speed cushions, at the following locations:

- Pointe Resolution Drive, between Easter Island Circle and Voyager Circle
- W 100<sup>th</sup> Avenue, between Pointe Resolution Drive and Bayshore Drive
- Lois Drive, between W 36<sup>th</sup> Avenue and W 32<sup>nd</sup> Avenue
- Apollo Drive, between Notting Hill Drive and Apollo Court

It is the responsibility of the bidder to prepare the bid so that all materials and/or fittings shall harmoniously conform to the intent of the Contract Drawings, Specifications, and Special Provisions.

**SECTION 95.02 REFERENCE TO MUNICIPALITY OF ANCHORAGE  
STANDARD SPECIFICATIONS**

This Contract is subject to and hereby incorporates by reference the Municipality of Anchorage Standard Specifications, dated 2015, hereinafter referred to as M.A.S.S.; the Alaska Sign Design Specifications (ASDS) as adopted and amended by the Municipality; the Municipality of Anchorage Sign Manual; the Alaska Traffic Manual (ATM)-Manual on Uniform Traffic Control Devices (MUTCD) 2009 Edition, with the Alaska supplement, dated 1/13/12; the National Electrical Safety Code (NESC) as amended and adopted by the Municipality; the National Electrical Code as amended and adopted by the Municipality of Anchorage; and the Edition of the Standard Specifications for Structural Supports for Highway Sign, Luminaires and Traffic Signals provided in the appropriate divisions. When conflicts exist between M.A.S.S. and MUTCD, the requirements of M.A.S.S. and these Special Provisions shall govern.

**SECTION 95.03 TIME OF COMPLETION**

This Project shall be completed within thirty (30) calendar days after the Notice-to-Proceed is issued.

**SECTION 95.04 MODIFICATIONS AND/OR ADDITIONS TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS**

The following listed provisions of M.A.S.S. are amended as hereinafter stated:

**A. DIVISION 10 STANDARD GENERAL PROVISIONS**

*Add the following Section:*

**SECTION 10.00 ALL APPLICABLE M.A.S.S. ARTICLES**

Delete all references to and requirements for compliance with Anchorage Municipal Code Chapter 7.60 the Disadvantaged/Women Owned Business (DBE/WBE) program and specifications.

**SECTION 10.03 AWARD AND EXECUTION OF CONTRACT**

**Article 3.4 Action on Bids**

*Delete the last paragraph and replace with the following:*

Unless otherwise specified in the Invitation to Bid, Notice of Award or rejection shall be given within sixty (60) days of Bid opening. The notice shall be in writing and signed by the Purchasing Officer or authorized designee. A Notice of Award shall constitute an acceptance of the Bid. No other act(s) of the Municipality or its representatives shall constitute an acceptance of a Bid. The acceptance of a Bid shall bind the successful Bidder to execute the Contract.

**SECTION 10.04 SCOPE OF WORK**

**Article 4.17 Utilities**

**C. Gas**

*Add the following paragraphs:*

The Contractor shall download and follow the most current construction guidelines published by ENSTAR. Those guidelines can be downloaded from:

<https://www.enstarnaturalgas.com/safety-education/natural-gas-safety/safety-for-excavators-contractors/>

*Click on the link in the last sentence of the first paragraph.*

The Final Rule from the PHMSA website can be obtained from:

<http://www.phmsa.dot.gov/nprm-anprm/PHMSA-2009-0192>

*Click on the "Excavation Damage 80 FR 43836 Final Rule" link on the right hand side.*

D. Electrical and Telecommunications

*Add the following paragraphs:*

The Contractor shall download and follow the most current construction guidelines published by Chugach Electric Association. Those guidelines can be downloaded from:

<http://www.chugachelectric.com/media-room/publications-request>

*Click on the link titled "Electrical Facility Clearance Requirements".*

*The following contact information is provided as a courtesy to the Contractor and is the most currently available.*

Alaska Communication Systems (ACS) North ANC – Francisco Martin, 564-1785 or 231-7369

Alaska Communication Systems (ACS) South ANC – Duilio Guerrero, 564-1522

Anchorage Water & Wastewater Utility (AWWU) – Shawn Dooley, 564-2786

AT&T – Mike Barsalou, 264-7325

Chugach Electric Association (CEA) – Victor Willis, 230-7536

ENSTAR Natural Gas – Stan Staples, 334-7777

GCI – Steven Cranford, 868-6769

Municipal Street and Storm Drain Maintenance – Eric Hodgson, 343-8100

Municipal Street Light Maintenance – Eric Hodgson, 343-8100

Municipal Traffic Signals Section – Mike Sickler, 343-8355

Solid Waste Services (SWS) – Evalu Filitaula, 343-6258 or 317-6863

Alaska Waste – Josh James, 688-4446

**SECTION 10.05 CONTROL OF WORK**

**Article 5.27 Liquidated Damages**

*Add the following paragraph:*

The Owner may withhold from any progress payment the sum of \$ 250 per day as Liquidated Damages for each and every calendar day that the Substantial Completion Date is delayed beyond the Contract Completion Date. The Owner may withhold out of any progress payment the sum of \$ 500 per day as Liquidated Damages for each and every calendar day that the Final Acceptance Date is delayed beyond the Contract Completion Date. If no money is due Contractor, the Owner will have the right to recover said sums from Contractor, the Surety, or both.

## **SECTION 10.06      LEGAL RELATIONS AND RESPONSIBILITIES**

### **Article 6.1      Laws to be Observed**

*Add the following paragraph:*

Owner is not aware of any contaminated material within the project limits. If such material is encountered, Contractor shall notify the Engineer immediately for direction. This will be treated as a changed condition, unless the contamination was caused by Contractor's operation.

**B. DIVISION 20 STANDARD CONSTRUCTION SPECIFICATIONS FOR EARTHWORK**

**SECTION 20.05 CLEARING**

**Article 5.1 General**

Pruning shall be done in accordance with the American National Standard (ANSI) A300, Part 1, *Standard Practices Pruning* and ANSI Z133.1 *Arboricultural Operations Safety*.

**Article 5.2 Construction**

The Contractor shall protect migratory bird habitat in compliance with the most current version of the “Construction Advisory for Protecting Migratory Birds (pdf)” handout located at <https://www.fws.gov/alaska/mbmp/mbm/index.htm>. Additionally, Contractor shall notify the Engineer immediately if any active nests are found at any time during construction of the project.

**SECTION 20.09 REMOVAL OF PAVEMENT**

**Article 9.2 Construction**

*Delete the second paragraph and replace with the following:*

Contractor shall keep all asphalt surfacing designated for removal free from objectionable material (concrete, steel, etc.) and shall dispose of asphalt surfacing designated for removal at the Kloep Maintenance Station, 5701 Northwood Street. Contractor shall coordinate exact location and time of delivery with Paul VanLandingham with MOA Street Maintenance at 343-8372 or 317-7054. If the removed pavement material under this Section contains objectionable material, as identified by the Engineer, then Contractor shall dispose of this material in accordance with Division 10, Section 10.04, Article 4.9 – Disposal Sites at no additional cost to MOA



**C. DIVISION 40 STANDARD CONSTRUCTION SPECIFICATIONS FOR ASPHALT SURFACING**

**SECTION 40.01 GENERAL**

*Add the following Article:*

**Article 1.7 Asphalt Price Adjustment**

This provision provides a price adjustment for asphalt cement material by:

1. an increase to the contract amount, or
2. a deduction from the contract amount.

The provision shall apply to asphalt concrete pavement which:

- is a major bid item as defined in M.A.S.S. Division 10, Section 10.04, Article 4.5 – Increased Quantities;
- is placed in the second or later year of the contract;
- conforms to M.A.S.S. Division 40, Section 40.06 – Asphalt Concrete Pavement; and
- is paid pursuant to M.A.S.S. Division 40, Section 40.06 – Asphalt Concrete Pavement and Section 40.07 – Stone Mastic Asphalt Concrete Pavement.

This provision shall only apply to cost changes in the asphalt cement material that occurs between the date of bid opening and the date the asphalt material is incorporated into the project.

The asphalt price adjustment shall only apply when there is more than a seven and one-half percent (7.5%) increase or decrease in the Alaska Asphalt Material Price Index from the date of the bid opening to the date the asphalt material is incorporated into the project.

As used in this Article, the Alaska Asphalt Material Price Index is calculated bi-monthly on the first and third Friday of each month, and will remain in effect from the day of calculation until the next bi-monthly calculation. The Alaska Asphalt Material Price Index is posted on the ADOT&PF's Statewide Materials website, and is calculated according to the formula posted therein.

The Asphalt Price Adjustment (APA) payment is cumulative and is calculated with each progress payment. Asphalt material price index in effect on the last day of the pay period is used to calculate the price adjustment for asphalt cement material incorporated into the project during that pay period. The Municipality will increase or decrease payment under this contract by the amount determined with the following asphalt cement material price adjustment formula:

$$\text{APA } \{\text{price } \textit{increase/decrease}\}^* = [(\pm \text{IPP} \mp \text{IB}) - (0.075 * \text{IB})] * Q * \% \text{AC}$$

Where,

**Q** = quantity of asphalt concrete pavement incorporated into the project during the pay period, in tons, and documented by weight tickets;

**IB** = Index at bid: the bi-monthly Alaska asphalt material price index in effect on date of bid, in dollars per ton;

**IPP** = Index at Pay Periods: the bi-monthly Alaska asphalt material price index in effect on the last day of the pay period, in dollars per ton; and

**%AC** = percentage asphalt cement content in the asphalt concrete pavement, as determined by the average asphalt cement content in project's asphalt concrete quality control testing.

\* Note: a negative price adjustment (APA) results in a price reduction to the Contract.

Method of measurement for determining quantity, Q, is the weight of asphalt concrete pavement material that conforms to M.A.S.S. Division 40, Section 40.06 – Asphalt Concrete Pavement and is incorporated into the project.

No asphalt price adjustment will be paid based on estimated quantities.

Contingent Sum payment shall be made on the following basis:

The final asphalt price adjustment on a project is the aggregate of the price adjustments paid on a project's respective progress pay estimates, i.e.,

$$\text{APA} = \text{APA}_1 + \text{APA}_2 + \dots + \text{APA}_n$$

Where  $n$  = partial payment estimate number.

*Replace Section 40.07 Permanent Asphalt Speed Humps with the following:*

## **SECTION 40.07 PERMANENT ASPHALT FLAT TOP SPEED HUMPS, AND ASPHALT SPEED CUSHIONS**

### **Article 7.1 General**

The work under this section shall consist of furnishing all materials and performing all operations necessary to construct permanent asphalt speed humps, asphalt flat top speed humps, and asphalt speed cushions (traffic calming devices) on paved surfaces.

## **Article 7.2 Cross Section Template**

Prior to construction, the Contractor shall submit (2) cross-section templates for each type of asphalt speed hump or asphalt speed cushion necessary to complete the construction for approval by the Engineer. One template shall be for the Contractor's quality assurance use, and the other shall be utilized by the Inspector. Should the cross-section templates be rejected, the Contractor shall resubmit new templates within five (5) working days. The Contractor shall construct templates of rigid materials such as wood or steel to match the cross-section per details in the project plans. The template will be used for checking the asphalt speed hump, asphalt flat top speed hump, and asphalt speed cushion for compliance during construction and for final acceptance upon completion. The template shall be manually moved laterally down the length of the asphalt speed hump, asphalt flat top speed hump, or asphalt speed cushion to verify that the specified traffic calming device matches the specified cross-section. Because the template will be used manually, it must be light weight but rigid enough to retain the specified cross-section shape during transport and use.

## **Article 7.3 Material**

The asphalt speed humps, asphalt flat top speed humps, and asphalt speed cushions shall be constructed of Class D asphalt pavement material as specified in M.A.S.S. Section 40.06 – Asphalt Concrete Pavement.

## **Article 7.4 Construction**

Construct asphalt speed humps, asphalt flat top speed humps, and asphalt speed cushions in accordance with M.A.S.S. Section 40.06 – Asphalt Concrete Pavement and the dimensions as detailed in the drawings.

Equipment used in the construction shall conform to M.A.S.S. Section 40.06 – Asphalt Concrete Pavement.

Density and surface requirements shall conform to M.A.S.S. Section 40.06 – Asphalt Concrete Pavement.

Prior to constructing the traffic calming device, Contractor shall apply a layer of Tack Coat to the paved surface in accordance with M.A.S.S. Section 40.04 – Tack Coat.

The compacted pavement surface shall be within plus or minus one-fourth inch ( $\pm 1/4"$ ) as shown in the plans. Non-conforming surfaces shall be subject to rejection by the Engineer.

**Article 7.5 Measurement**

The asphalt speed humps, asphalt flat top speed humps, and asphalt speed cushions shall be measured per each complete traffic calming device accepted in place, in accordance with M.A.S.S Division 10, Section 10.07 – Measurement and Payment, and shall include full payment for all Work described in this Section. No separate measurement or payment will be made for asphalt, tack coat, pavement symbol markings, templates, or other material required to construct each asphalt flat top speed hump or asphalt speed cushion as they are incidental to this work item.

Payment shall be made under the following units:

ITEM	UNIT
Asphalt Flat Top Speed Hump	Each
Asphalt Speed Cushion	Each

**D. DIVISION 70 STANDARD CONSTRUCTION SPECIFICATIONS  
MISCELLANEOUS**

**SECTION 70.12 TRAFFIC MAINTENANCE**

*Amend the following Article:*

**Article 12.6 Public Notice**

Delete the first paragraph, inclusive of the list of local officials and transportation organizations, and replace with the following:

The Work Site Traffic Supervisor shall give notices of changes, delays, or lane/road closures to the following local officials and transportation organizations including, but not limited to:

- |                                       |               |
|---------------------------------------|---------------|
| 1. Anchorage Chamber of Commerce      | 272-2401      |
| 2. Alaska Travel Industry Association | 929-2842      |
| 3. Alaska Trucking Association        | 276-1149      |
| 4. Alaska State Troopers              | 428-7200      |
| 5. Alaska Court System                | 264-8232      |
| 6. Anchorage Police Department        | 786-8500      |
| 7. Anchorage Fire Department          | 267-4950      |
| 8. Local Emergency Medical Services   | 267-4950      |
| 9. Anchorage Public Transportation    | 343-8253/8386 |
| 10. ASD Pupil Transportation          | 742-1207      |
| 11. U.S. Postal Service               | 266-3261      |
| 12. MOA Parks and Recreation          | 343-4297      |
| 13. Local Schools and Universities    | Varies        |
| 14. Solid Waste Services              | 343-6250      |
| 15. Alaska Waste                      | 563-3717      |
| 16. Commercial Vehicle Enforcement    | 365-1203      |

END OF SPECIAL PROVISIONS



**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**III**

**SUBMITTAL LIST**





**2023 VERTICAL TRAFFIC CALMING****22-29****SUBMITTAL LIST**

Job #: \_\_\_\_\_ Contractor: \_\_\_\_\_

Submittal Number	Rev.	Description
10.04.9		Private Property Disposal Site Permission; Fill Permit
10.04.12		Property Owner 48-Hour Closure Notice
10.04.13		Street Closures; Traffic Control Plan
10.04.15		Temporary Erosion and Sediment Control Plan
10.04.17		Utility Notification Verification
10.04.17		Pre-Construction Utility Inspection Report
10.04.17		Post-Construction Utility Inspection Report
10.04.19		Record Drawings
10.05.3		Construction Progress Schedule
10.05.3		Schedule of Values
10.05.4		Notice of Unusual Working Hours
10.05.7		Proposed Substitutions
10.05.9		Contractor's Authorized Representatives and Employees
10.05.10		Subcontractor's List
10.05.31		Winter Suspension Plan
10.06.6		Contractor Obtained Permits (ROW, Noise, Electrical, Dewatering, etc.)
10.06.9		Certificate of Insurance
10.06.12		Certified Payroll
10.07.1		Material Weight Tickets
10.07.7		ADOL Notification of Compliance
10.07.7		Notarized Certificate of Compliance
20.02.4		Storm Water Pollution Prevention Plan (SWPPP)
20.02.4		eNOI
20.02.14		eNOT and Final SWPPP

Submittal Number	Rev.	Description
20.02.16		SWPPP Inspection Reports
40.04.2		Certified Analysis of Asphalt for Tack Coat from Refining Laboratory
40.04.3		Tack Coat Test Strip and Notification
40.06.2		Certified Analysis of Asphalt for A.C. Pavement from Refining Laboratory
40.06.3		Asphalt Job Mix Formula for A.C. Pavement
40.06.4		Contractor's Certificate of Compliance for bituminous paver segregation mechanism installation
40.06.5		Paving Plan
40.07.2		Permanent Asphalt Speed Hump Cross Section Template
40.09.2		Certified Analysis of Asphalt for Bituminous Surface Treatment from Refining Laboratory
65.02.2		Survey Field Notes
65.02.3		Party Chief's Daily Diary
65.02.5		Survey Cross Sections
65.02.5		Notification Prior to Cross Section Work
65.02.13		Survey Electronic Data
65.02.16		Survey Quantity Measurements (Clearing, Clearing & Grubbing, Pavement Removal, Pavement Rotomilling, Pavement Reclamation, Road Excavation, Trench Excavation, Topsoil, Seeding, and other areas of misc. final surfacing application such as asphalt, concrete, RAP, etc. which are measured in SF or SY)
70.10.3		Manufacturer's Recommendations for Application of Methyl Methacrylate Traffic Markings
70.12.2		Traffic Control Plan (TCP)
70.12.4		Identify Work Site Traffic Supervisor/Telephone Number
70.12.6		Proof of Public Notice

NOTE: The above list of submittals is not all inclusive. In addition to the above, the Contractor is required to comply with all submittal requirements as required or identified in the plans, specifications, M.A.S.S., or as directed by the Engineer.

**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**IV**

**EQUAL EMPLOYMENT OPPORTUNITY SPECIAL PROVISIONS**



# **CONTRACT COMPLIANCE SPECIFICATIONS**

## **EQUAL EMPLOYMENT OPPORTUNITY**

### **SPECIAL PROVISIONS**

Every municipal contract shall include language substantially the same as the following: The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, age, sex, sexual orientation, gender identity, marital status, or physical or mental disability. The contract will comply with all laws concerning the prohibition of discrimination including, but not limited to, Title 5 and Title 7 of the Anchorage Municipal Code.

Every municipal contract shall state, in all solicitations or advertisements for employees to work under the contract, that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, ancestry, age, sex, sexual orientation, gender identity, marital status, or physical or mental disability.



**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**V**

**MINIMUM RATES OF PAY**





## Laborers' & Mechanics' Minimum Rates of Pay

Title 36. Public Contracts AS 36.05 & AS 36.10 Wage & Hour Administration Pamphlet No. 600 (Pamphlet 600) is hereby incorporated in its entirety. Pamphlet 600 is available for free download at <http://labor.state.ak.us/lss/pamp600.htm>.

The Municipality of Anchorage will include a paper copy of the wage rates in the signed Contract.



**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**VI**

**CONTRACT**



# CONTRACT

Invitation to Bid No. **2019C** \_\_\_\_\_

Contract No. **C-2019** \_\_\_\_\_

NAME AND ADDRESS OF CONTRACTOR:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Check appropriate box:

Incorporated in the State of

MUNICIPALITY OF ANCHORAGE, acting through \_\_\_\_\_ (hereinafter the Owner).

Contract for \_\_\_\_\_

**BID SCHEDULES**

**ITEMS**

**PLAN SHEET  
FILE NUMBERS**

**AMOUNT**

\$ \_\_\_\_\_

Total Amount : \$ \_\_\_\_\_

THIS CONTRACT, entered into by the MUNICIPALITY OF ANCHORAGE, ALASKA, acting through the Owner named above, and the individual, partnership, or corporation named above, hereinafter called the Contractor, WITNESSETH that the parties hereto do mutually agree as follows:

Statement of Work: The Contractor shall furnish all labor, equipment and materials and perform the Work above described, for the amount stated, in strict accordance with the Contract Documents.

## CONTRACT DOCUMENTS

- I. This CONTRACT consisting of 4 pages.
- II. The Bid Proposal Section \_\_\_\_ consisting of \_\_\_\_ pages numbered as \_\_\_\_, **as contained in ITB 2019C**\_\_\_\_\_.
- III. The Contract Performance and Payment Bond \_\_\_\_\_.
- IV. The Contractor's Certificate of Insurance Dated \_\_\_\_\_.
- V. Municipality of Anchorage Standard Specifications dated 2015 (MASS) Incorporated by Reference, **as contained in ITB 2019C**\_\_\_\_\_.
- VI. Specifications consisting of the following:  
  
Supplemental Provisions Section \_\_\_\_ consisting of \_\_\_\_ pages, with attachments Exhibit A through F, **as contained in ITB 2019C**\_\_\_\_\_.
- VII. Equal Opportunity Special Provisions and Forms Section \_\_\_\_ consisting of \_\_\_\_ pages, **as contained in ITB 2019C**\_\_\_\_\_.
- VIII. Disadvantaged/Women-Owned Business Enterprise (DBE/WBE) Specification Section \_\_\_\_ consisting of \_\_\_\_ pages, **as contained in ITB 2019C**\_\_\_\_\_.
- IX. The Laborers' and Mechanics' Minimum Rates of Pay dated September 1, 2015 Section \_\_\_\_ consisting of \_\_\_\_ pages, **as contained in ITB 2019C**\_\_\_\_\_.
- X. Submittal List Section \_\_\_\_ consisting of \_\_\_\_ page, **as contained in ITB 2019C**\_\_\_\_\_.
- XI. The Drawings consisting of \_\_\_\_ sheets numbered \_\_\_\_\_, **as contained in ITB 2019C**\_\_\_\_\_.

IN WITNESS WHEREOF, the parties hereto have executed this Contract as of the Contract Date entered below.

MUNICIPALITY OF ANCHORAGE, ALASKA

VENDOR \_\_\_\_\_

BY \_\_\_\_\_  
Signature

BY \_\_\_\_\_  
Signature

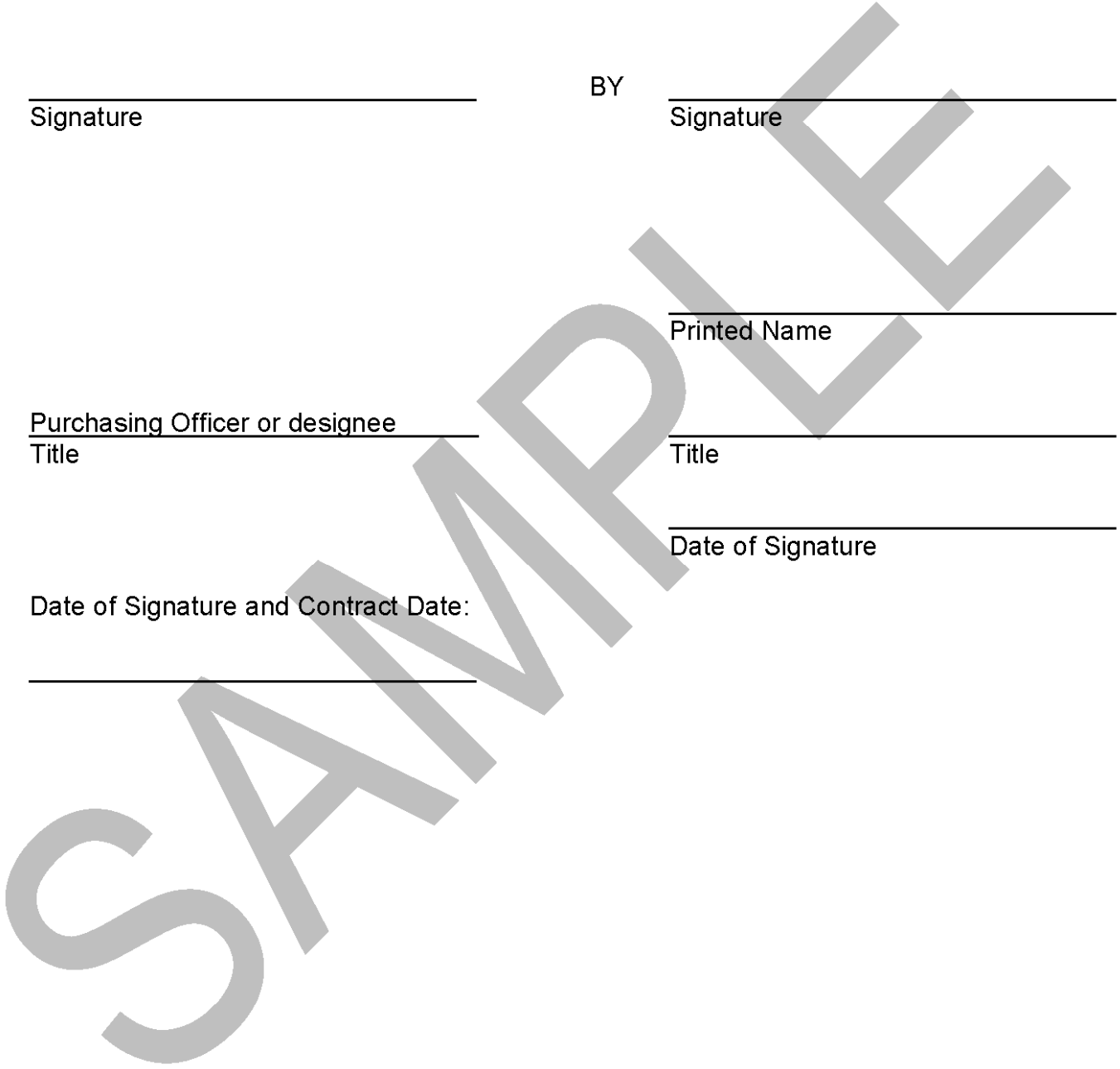
\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Purchasing Officer or designee  
Title

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date of Signature

Date of Signature and Contract Date:  
\_\_\_\_\_



**CONTRACT AND PERFORMANCE AND PAYMENT  
BOND SIGNATURE INSTRUCTIONS**

1. The full name and business of the Contractor shall be inserted on Page 1 of the Contract and on the Performance and Payment Bond, hereinafter the Bond.
2. Two copies of the Contract and the Bond shall be manually signed by the Contractor. If the Contractor is a partnership or joint venture, all partners or joint ventures shall sign the Contract and the Bond except that one partner or one joint venturer may sign for the partnership or joint venture when all other partners or joint venturers have executed a Power-of-Attorney authorizing one partner or joint venturer to sign. The Power-of-Attorney shall accompany the executed contract and the Bond.
3. If the Contractor is a corporation, the President of the corporation shall execute the Contract and the Bond unless a Power-of-Attorney or corporate resolution shall accompany the executed Contract and Bond.
4. The Bond shall be returned to the Purchasing Division undated. The Contract Date shall be inserted on the Contract when the Municipality signs the Contract and the Bond shall be dated the same as the Contract Date.

SAMPLE



**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**VII**

**CONTRACT PERFORMANCE AND PAYMENT BOND**



## CONTRACT PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, That we \_\_\_\_\_  
 \_\_\_\_\_ of \_\_\_\_\_  
 as Principal, and \_\_\_\_\_  
 a corporation organized under the laws of the \_\_\_\_\_  
 \_\_\_\_\_ and authorized to transact surety business in  
 the State of Alaska, of \_\_\_\_\_  
 as Surety, are held and firmly bound unto the MUNICIPALITY OF ANCHORAGE, as Oblige, in  
 the full and just sum of \_\_\_\_\_  
 (\$ \_\_\_\_\_) Dollars, lawful money of the UNITED STATES,  
 for the payment which, well and truly to be made, we bind ourselves, our heirs, executors,  
 administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION IS SUCH, that whereas the principal has entered into  
 a certain contract dated the \_\_\_\_\_ date of \_\_\_\_\_  
 20\_\_\_\_\_, with the Oblige for the construction of \_\_\_\_\_  
 \_\_\_\_\_

which contract is hereby referred to and made a part hereof as fully and to the same extent as if  
 copied at length herein.

NOW THEREFORE, if the Principal shall well and truly perform and fulfill all the undertakings,  
 covenants, terms, conditions, and agreements of said contract, and shall promptly make  
 payments to all persons supplying labor and material in the prosecution of the work provided for  
 in said contract, during the original term of said contract and any extensions or modifications  
 thereof that may be granted by the Municipality, with or without notice to the Surety, then this  
 obligation to be void; otherwise to remain in full force and effect.

This obligation is made for the use of said Oblige and also for use and benefit of all persons who  
 may perform any work or labor or furnish any material in the execution of said Contract and may  
 be sued on thereby in the name of said Oblige.

The said Surety, for the value received, hereby stipulates and agrees that no change, extension  
 of time, alteration or addition to the terms of the contract or to the work to be performed  
 thereunder or the specifications accompanying the same, shall in anywise affect its obligations on  
 this bond, and it does hereby waive notice of any such change, extension of time, alteration or  
 addition to the terms of the contract or to the work or to the specifications.

Whenever Principal shall be, and declared by Obligee to be in default under the Contract the Obligee having performed Obligee's obligations thereunder, the Surety may promptly remedy the default or shall promptly:

1. Complete the Contract in accordance with its terms and conditions, or
2. Obtain a bid or bids for submission to Obligee for completing the Contract in accordance with its terms and conditions and upon determination by Surety of the lowest responsible bidder, or, if the Obligee elects, upon determination by Obligee and the Surety jointly of the lowest responsible bidder, arrange for a contract between such bidder and Obligee and make available as Work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price but not exceeding, including other costs and damages for which the Surety may be liable hereunder the amount set forth in the first paragraph hereof. The term "balance of the contract price" as used in this paragraph, shall mean the total amount payable by Obligee to Principal under the Contract and any amendments thereto, less the amount properly paid by Obligee to Principal.

IN TESTIMONY WHEREOF, the parties hereunto have caused the execution hereof in \_\_\_\_\_ original counterparts as of the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

WITNESS AS TO PRINCIPAL:

\_\_\_\_\_

(AFFIX CORPORATE SEAL)

\_\_\_\_\_

Principal Name

\_\_\_\_\_

Principal Signature

\_\_\_\_\_

Corporate Surety

\_\_\_\_\_

Surety Business Address

BY: \_\_\_\_\_

(Attorney-In-Fact)

(AFFIX SURETY SEAL)

**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**VIII**

**CERTIFICATE OF INSURANCE**



## INSURANCE

By submitting a bid, the bidder agrees, if they are the successful bidder, to obtain and maintain the insurance required by this section. The bidder also agrees to provide the Municipality a copy of their Certificate of Liability Insurance prior to signing the contract and prior to commencement of any work under this contract.

**GENERAL:** The Contractor will not allow any subcontractor to commence work until the subcontractor has obtained insurance as listed in this section. The contractor and each subcontractor shall maintain this insurance throughout the life of this contract, including any maintenance and/or guarantee/warranty period. The contractor shall obtain separate insurance certificates for each contract.

**ADDITIONAL INSURED:** The Municipality of Anchorage shall be listed as an additional insured on all General and Auto Liability policies required by this contract. All policies shall contain a waiver of subrogation against the Municipality, except Professional Liability. All policies shall remain in effect during the life of the contract. The Contractors insurance certificate shall also indicate the Municipality of Anchorage as a certificate holder of the policy.

**WORKERS COMPENSATION:** The Contractor shall purchase and maintain during the life of this contract, workers compensation insurance for all employees who will work on this project and, if any work is sublet, the Contractor shall require the subcontractor similarly to provide such insurance. Employers' Liability with a minimum limit of \$500,000 shall be maintained and Workers Compensation with minimum limits as required by Alaska State Workers Compensation Statutes. The policy shall contain a waiver of subrogation against the Municipality.

**NOTICE TO "OUT-OF-STATE" CONTRACTORS WORKING IN ALASKA:** The Contractor shall provide evidence of Workers Compensation insurance, either State of Alaska Workers Compensation coverage or an endorsement to the Contractor's home state Workers Compensation policy, evidencing coverage for "other states" including Alaska, prior to execution of a contract or, if approved, before commencement of contract performance in Alaska.

**GENERAL LIABILITY:** The Contractor shall purchase and maintain, in force, during the life of this contract such general liability insurance as shall protect the Owner and the Contractor against losses which may result from claims for damages for bodily injury, including accidental death, as well as from claims for property damages which may arise from any operations under this contract whether such operations be those of the Contractor, a subcontractor or anyone directly or indirectly employed by either of them.

<b><u>Commercial General Liability</u></b>	<b><u>Minimum Limits</u></b>
Products/Completed Operations	\$2,000,000
Personal & Advertising Injury	\$1,000,000
Each Occurrence	\$1,000,000
General Aggregate	\$2,000,000
Medical Payments	\$5,000
<b><u>Commercial Auto Liability</u></b>	<b><u>Minimum Limits</u></b>
Combined single limit (Bodily Injury and Property Damage)	\$1,000,000
Including all owned, hired, and non-owned	
<b><u>Workers Compensation and Employers Liability</u></b>	<b><u>Minimum Limits</u></b>
Per Alaska statute	\$500,000
<b><u>Errors and Omissions</u></b>	<b><u>Minimum Limits</u></b>
Professional Liability (Not required unless limits appear in space provided)	
<b><u>Umbrella Liability</u></b>	<b><u>Minimum Limits</u></b>
(Not required unless limits appear in space provided)	
\$ _____ S.I.R.	

Each insurance policy required by this section shall require the insurer to give advance notice to the MOA/Contract Administrator prior to the cancellation of the policy. IF the insurer does not notify the MOA upon policy cancellation, it shall be the Contractor's responsibility to notify the MOA of such cancellation.

**COMPLIANCE WITH LAWS**

The Contractor shall observe and abide by all applicable laws, regulations, ordinances and other rules of the State of Alaska and/or any political subdivisions thereof, or any other duly constituted public authority wherein work is done or services performed, and further agrees to indemnify and save the Municipality of Anchorage harmless from any and all liability or penalty which may be imposed or asserted by reason of the Contractor's failure or alleged failure to observe and abide thereby.

(Remainder of Page Initially left Blank)





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

**THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.**

**IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) shall be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).**

<b>PRODUCER</b>	<b>CONTACT NAME:</b> PHONE (A/C, No, Ext): _____ FAX (A/C, _____ E-MAIL ADDRESS: _____  <table style="width: 100%; border: none;"> <tr> <td style="width: 80%; text-align: center; border: none;"><b>INSURER(S) AFFORDING COVERAGE</b></td> <td style="width: 20%; text-align: center; border: none;"><b>NAIC #</b></td> </tr> <tr> <td style="border: none;"><b>INSURER A :</b></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"><b>INSURER B :</b></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"><b>INSURER C :</b></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"><b>INSURER D :</b></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"><b>INSURER E :</b></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"><b>INSURER F :</b></td> <td style="border: none;"></td> </tr> </table>	<b>INSURER(S) AFFORDING COVERAGE</b>	<b>NAIC #</b>	<b>INSURER A :</b>		<b>INSURER B :</b>		<b>INSURER C :</b>		<b>INSURER D :</b>		<b>INSURER E :</b>		<b>INSURER F :</b>	
<b>INSURER(S) AFFORDING COVERAGE</b>	<b>NAIC #</b>														
<b>INSURER A :</b>															
<b>INSURER B :</b>															
<b>INSURER C :</b>															
<b>INSURER D :</b>															
<b>INSURER E :</b>															
<b>INSURER F :</b>															
<b>INSURED</b>															

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS								
	<b>GENERAL LIABILITY</b> <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE      OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO <input type="checkbox"/> LOC						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$								
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS  <input type="checkbox"/> SCHEDULE D AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$								
	<b>UMBRELLA LIAB</b> OCCUR <b>EXCESS LIAB</b> CLAIMS-  DED      RETENTIONS \$						EACH OCCURRENCE \$ AGGREGATE \$ \$								
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE      Y / N  <input type="checkbox"/> OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below      N / A						<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">WC STATUTORY LIMITS</td> <td style="width: 50%; border: none;">OTHER</td> </tr> <tr> <td style="border: none;">E.L. EACH ACCIDENT</td> <td style="border: none;">\$</td> </tr> <tr> <td style="border: none;">E.L. DISEASE - EA</td> <td style="border: none;">\$</td> </tr> <tr> <td style="border: none;">E.L. DISEASE - POLICY LIMIT</td> <td style="border: none;">\$</td> </tr> </table>	WC STATUTORY LIMITS	OTHER	E.L. EACH ACCIDENT	\$	E.L. DISEASE - EA	\$	E.L. DISEASE - POLICY LIMIT	\$
WC STATUTORY LIMITS	OTHER														
E.L. EACH ACCIDENT	\$														
E.L. DISEASE - EA	\$														
E.L. DISEASE - POLICY LIMIT	\$														

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)**

1. The Municipality of Anchorage is an additional insured on Auto and General Liability policies. All policies, including workers compensation, contain a WAIVER OF SUBROGATION against the Municipality, except Professional Liability, .
2. CANCELLATION: "Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the Policy Provisions."

**CERTIFICATE HOLDER**

**CANCELLATION**

	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. _____ Authorized Representative
--	--



**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**IX**

**BID BOND**



# BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, \_\_\_\_\_  
 as Principal, and \_\_\_\_\_ a  
 corporation organized under the laws of the \_\_\_\_\_ and  
 authorized to transact surety business in the State of Alaska, of \_\_\_\_\_  
 \_\_\_\_\_ as Surety, are held and firmly bound unto the MUNICIPALITY OF  
 ANCHORAGE, as Obligee, in the full and just sum of \_\_\_\_\_  
 \_\_\_\_\_ (\$ \_\_\_\_\_) Dollars, lawful  
 money of the UNITED STATES, for the payment of which sum, well and truly to be made, we bind  
 ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly  
 by the presents.

WHEREAS, the said Principle is herewith submitting its proposal for \_\_\_\_\_  
 \_\_\_\_\_.

The condition of this obligation is such that if the aforesaid Principal will, within the time required enter  
 into a formal contract and give a good and sufficient bond to secure the performance of the terms and  
 conditions of the contract, then this Obligation to be void; otherwise the Principal and Surety will pay  
 unto to the Obligee the amount stated above.

Signed, sealed, and delivered \_\_\_\_\_, 20\_\_\_\_\_.

WITNESS AS TO PRINCIPAL:

\_\_\_\_\_

(AFFIX CORPORATE SEAL)

\_\_\_\_\_  
 Contractor Name

\_\_\_\_\_  
 Contractor Signature

\_\_\_\_\_  
 Corporate Surety

\_\_\_\_\_

\_\_\_\_\_  
 Surety Business Address

BY: \_\_\_\_\_  
 (Attorney-In-Fact)

(AFFIX SURETY SEAL)



**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**X**

**BIDDER'S CHECKLIST & RESPONSIBLE BIDDER QUESTIONNAIRE**





Municipality of Anchorage  
ITB: 2023C007

## BIDDER'S CHECKLIST

### INSTRUCTION TO BIDDER

#### I. GENERAL:

Bidders are advised that notwithstanding any instructions or implications elsewhere in this Invitation to Bid only the documents shown and detailed on this sheet need be submitted with and made part of their bid. Other documents may be required to be submitted after bid time, but prior to award. Bidders are hereby advised that failure to submit the documents shown and detailed on this sheet shall be justification for rendering the bid nonresponsive. Evaluation of bids for responsiveness shall be accomplished in accordance with Anchorage Municipal Code, Title 7.

#### II. REQUIRED DOCUMENTS FOR BID

**NOTE:** "Only the following listed items as marked with an "X" are required to be completely filled out and submitted with the bid."

- Bid Proposal consisting of six (6) pages numbered BP- 1 of 6 through BP- 6 of 6. Bid Proposal **Page BP- 2 of 6 must** be manually signed.
- Erasures or other changes made to the Bid Proposal Sheet must be initialed by the person signing the bid.
- Bid Bond, certified check, cashier's check, money order or cash shall be submitted with the bid in the amount indicated.
- All Addenda issued shall be acknowledged in the space provided on the Bid Proposal sheet or by manually signing the Addenda sheet and submitting it prior to the bid opening in accordance with Anchorage Municipal Code 7.20.020C.
- Other



**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

**XI**

**BID PROPOSAL**



BID PROPOSAL  
(CERTIFICATION)

TO: MUNICIPALITY OF ANCHORAGE  
PURCHASING DEPARTMENT  
632 W. 6TH AVENUE, SUITE 520  
ANCHORAGE, ALASKA 99501

February 14, 2023

**SUBJECT:** Invitation to Bid No. 2023C007  
**PROJECT TITLE: VERTICAL TRAFFIC CALMING**

Pursuant to and in compliance with subject Invitation to Bid, and other bid documents relating thereto, the bidder hereby proposes to furnish all labor and materials and to perform all work for the construction of the above referenced project in strict accordance with the bid documents at the prices established in the Bid Proposal, page **BP- 2 of 6 and page BP 6 of 6** submitted herewith.

The bidder agrees, if awarded the contract, to commence and complete the work within the time specified in the bid documents.

**BASIC BID; LUMP SUM: \$**\_\_\_\_\_

The bidder acknowledges receipt of the following addenda:

Addenda No. _____	Date of Addenda _____
Addenda No. _____	Date of Addenda _____
Addenda No. _____	Date of Addenda _____

Enclosed is a Bid Bond in the amount of \_\_\_\_\_.  
(Dollar Amount or Percentage of Bid)

Type of Business Organization

The bidder, by checking the applicable box, represents that it operates as ( ) a corporation incorporated under the laws of the State of \_\_\_\_\_, ( ) an individual, ( ) an LLC, ( ) a partnership, ( ) a nonprofit organization, or ( ) a joint venture. If a partnership or joint venture, identify all parties on a separate page.

\_\_\_\_\_  
Company Name

BID PROPOSAL  
(CERTIFICATION)  
Continued

**SUBJECT:** Invitation to Bid No. 2023C007  
**PROJECT TITLE:** VERTICAL TRAFFIC CALMING

\_\_\_\_\_  
Date

\_\_\_\_\_  
Alaska Contractor's License Number

\_\_\_\_\_  
Company Name (Printed)

\_\_\_\_\_  
Employer's Tax Identification Number

\_\_\_\_\_  
Authorized Representative Signature

\_\_\_\_\_  
Printed Name & Title

\_\_\_\_\_  
Company **Mailing** Address

\_\_\_\_\_  
Company Phone Number

\_\_\_\_\_  
City, State, Zip Code

\_\_\_\_\_  
Company Fax Number

\_\_\_\_\_  
Company **Physical** Address  
(if different from mailing address)

\_\_\_\_\_  
Company Email Address

\_\_\_\_\_  
City, State, Zip Code

**MUNICIPALITY OF ANCHORAGE**  
**TRAFFIC ENGINEERING DEPARTMENT**  
**2023 VERTICAL TRAFFIC CALMING**  
**Project 22-29**

ITEM NO.	SPEC. NO.	WORK DESCRIPTION	EST QTY	UNIT BID PRICE	TOTAL BID PRICE
A-1	20.05 95.04	Clearing	1		
			per LS		
A-2	20.09 95.04	Remove Pavement	970		
			per SY		
A-3	20.11	Grading Existing Surfaces	260		
			per LF		
A-4	40.06	A.C. Pavement (Class D)	110		
			per Ton		
A-5	40.07 95.04	Asphalt Flat Top Speed Hump	3		
			per Each		
A-6	40.07 95.04	Asphalt Speed Cushion	8		
			per Each		
A-7	65.02	Two-Person Survey Crew	40		
			per HR		
A-8	70.10	Inlaid Traffic Markings (Methylemethacrylate, 4" Yellow, 90 mil)	3,200		
			per LF		
A-9	70.10	Inlaid Traffic Markings (Methylemethacrylate, 8" Yellow, 90 mil)	300		
			per LF		
A-10	70.11	Standard Sign	182		
			per SF		
A-11	70.12 95.04	Traffic Maintenance	1		
			per LS		

TOTAL BASIC BID: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

DATE: \_\_\_\_\_

\_\_\_\_\_  
COMPANY NAME





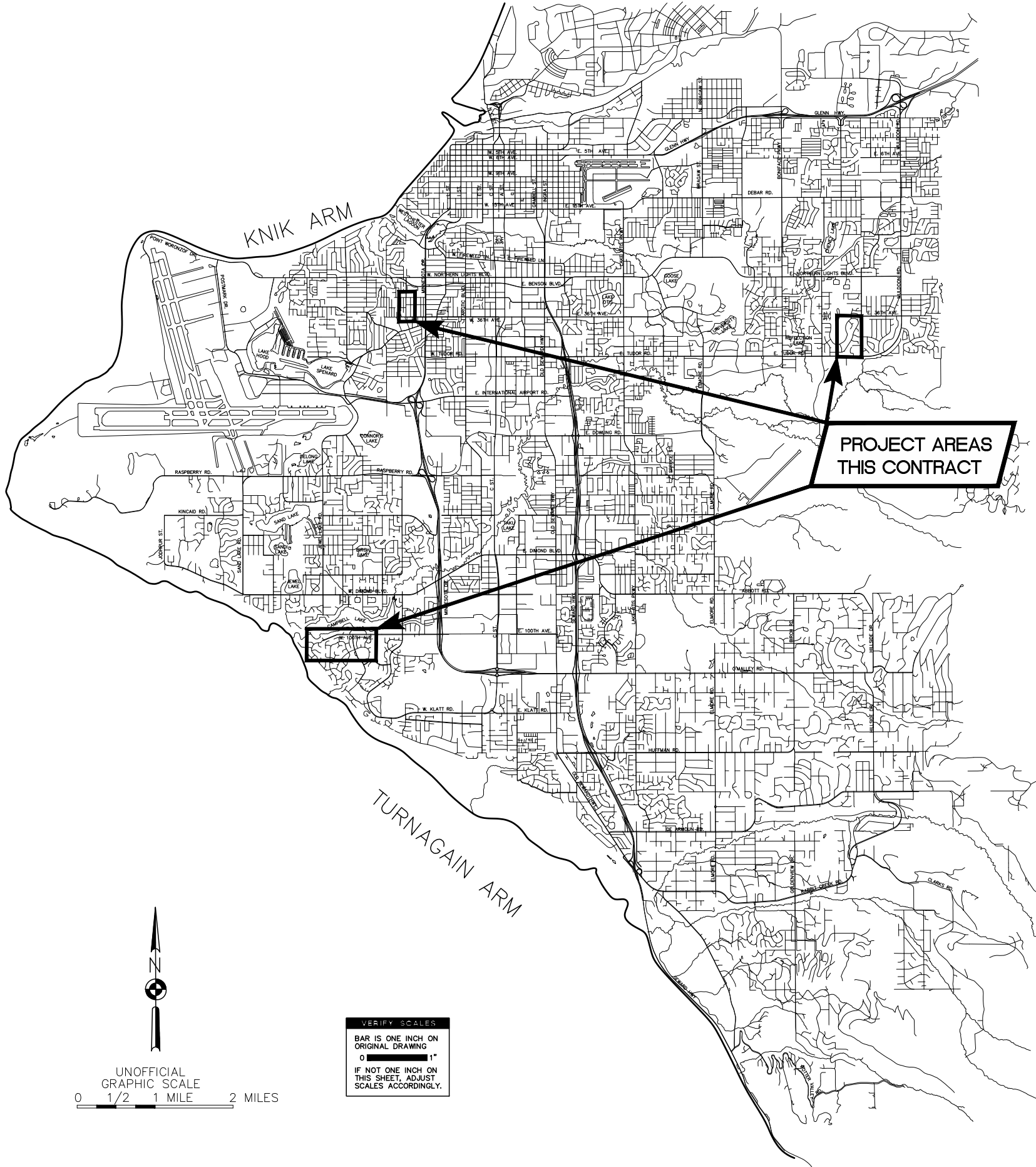
**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING**

**Project 22-29**

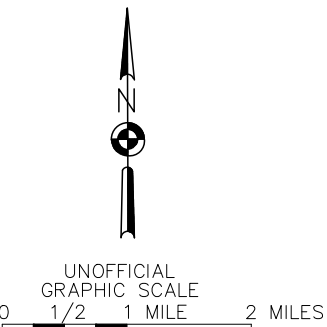
**XII**

**PLANS (10 SHEETS)**



**MUNICIPALITY OF ANCHORAGE  
TRAFFIC ENGINEERING DEPARTMENT**

**2023 VERTICAL TRAFFIC CALMING  
PROJECT 22-29**



**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

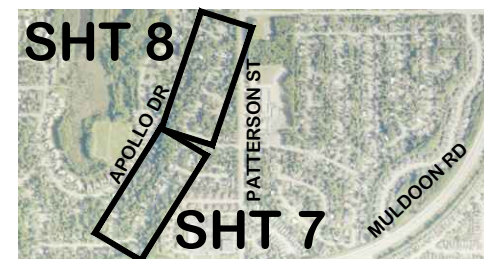
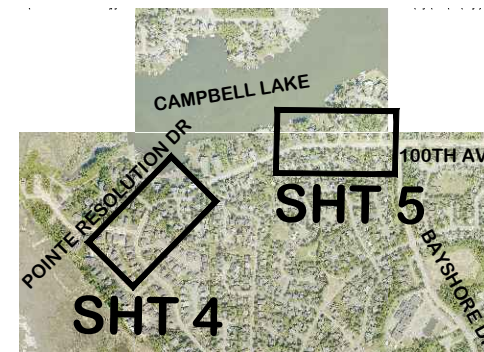
APPROVED BY:

*Brandon Telford*  
 BRANDON TELFORD, P.E.,  
 ACTING MUNICIPAL ENGINEER

H:\jobs\21-014 MOA Traffic Eng Term 11\29-2023 Vertical Traffic Calming\CAD Drawings\21014\_29\_01\_Cover.dwg, 1:2, 1/13/23 at 11:56 by WPEACE

**GENERAL NOTES**

- CONTRACTOR SHALL COMPLETE CONSTRUCTION I.A.W. THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, DATED 2015, HEREAFTER REFERRED TO AS M.A.S.S.
- NO SURVEY HAS BEEN PERFORMED FOR THIS PROJECT. ASPHALT EDGES WERE DETERMINED FROM AERIAL PHOTOGRAPHY AND MAY NOT BE CENTERED WITHIN THE ROW.
- LOCATIONS DEPICTED FOR VISIBLE UTILITIES AND OTHER EXISTING FEATURES ARE APPROXIMATE AND SHOWN NEAR WORK AREA. CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITY LOCATIONS AND DEPTHS, WHERE APPROPRIATE, PRIOR TO CONSTRUCTION. CONTRACTOR SHALL LOCATE ALL LIDS/COVERS/ETC THAT PROTRUDE INTO THE PAVEMENT IN THE FIELD PRIOR TO BEGINNING WORK.
- PAVEMENT EDGES AND WIDTHS SHOWN ON DRAWING ARE APPROXIMATE. CONTRACTOR SHALL MATCH EXISTING STREET WIDTHS EXCEPT WHERE PAVEMENT EDGE HAS UNRAVELED AND REDUCED THE WIDTH OR AS DIRECTED BY THE ENGINEER.
- ALL CONSTRUCTION OPERATIONS REQUIRED FOR THIS PROJECT SHALL REMAIN WITHIN EXISTING MOA ROW AND EASEMENTS, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER AND THE AFFECTED PROPERTY OWNER.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE PERMITS SHALL BE MAINTAINED AT THE JOB SITE.
- CONTRACTOR SHALL MAINTAIN "REDLINE" RECORD DRAWINGS ON A CLEAN SET OF CONSTRUCTION DRAWINGS IN ACCORDANCE WITH M.A.S.S. DIVISION 65.00 CONSTRUCTION SPECIFICATIONS FOR MUNICIPAL CONSTRUCTION SURVEYS. THE CONTRACTOR SHALL MAINTAIN THE "REDLINES" CURRENT ON A DAILY BASIS WHICH SHALL BE AVAILABLE TO THE ENGINEER FOR INSPECTION ON THE JOB SITE.
- OVERHEAD ELECTRICAL AND TELECOMMUNICATION LINES OCCUR WITHIN THE PROJECT AREA. CONTRACTOR SHALL COORDINATE WORK ACCORDINGLY. ALL WORK IN CLOSE PROXIMITY TO EXISTING UTILITY LINES AND POLES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY. CONTRACTOR SHALL HAND DIG WITHIN TWO FEET OF BURIED ELECTRICAL CABLE.
- CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT TO IMPROVEMENT LIMITS, ADDITIONAL REMOVAL MAY BE NECESSARY PER ROAD CONDITIONS AS DIRECTED BY THE ENGINEER. IF EXISTING PAVEMENT HAS BEEN LIFTED, IF EDGE DOES NOT OCCUR IN UNDISTURBED MATERIAL, OR IF EDGE IS LOCATED WITHIN A TRAVEL LANE, FURTHER REMOVAL MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, TO PROVIDE A PROPER TRANSITION BETWEEN NEW AND EXISTING PAVEMENT. SAWCUTTING OF EXISTING PAVEMENT IS INCIDENTAL TO THE BID ITEM "REMOVE EXISTING PAVEMENT", AND NO SEPARATE PAYMENT SHALL BE MADE.
- ALL ROADWAY SURFACES ARE ASPHALT, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL APPLY TACK COAT TO THE SAW CUT ASPHALT OR GUTTER FACE PRIOR TO PAVING. CONTRACTOR SHALL APPLY TACK COAT BETWEEN ASPHALT ROADWAY SURFACE AND ASPHALT VERTICAL TRAFFIC DEVICE. TACK COAT IS INCIDENTAL TO THE PROJECT, AND NO SEPARATE PAYMENT SHALL BE MADE.
- WORK AND MATERIALS REQUIRED FOR REMOVING LITTER OR DEBRIS THAT EXISTS WITHIN THE PROJECT LIMITS IS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO PRE-CONSTRUCTION CONDITION(S), UNLESS OTHERWISE DIRECTED BY THE ENGINEER. RESTORING DISTURBED PROPERTY IS INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR WILL ENSURE THAT EXISTING DRAINAGE PATTERNS ARE MAINTAINED. MINIMUM FLOW LINE SLOPE IS 0.5% OR EXISTING SLOPE, WHICHEVER IS LESS.
- CONTRACTOR SHALL GRADE SURFACES TO PROVIDE POSITIVE DRAINAGE.
- ASPHALT SPEED CUSHION AND ASPHALT FLAT TOP SPEED HUMP LOCATIONS ARE APPROXIMATE. CONTRACTOR AND ENGINEER SHALL CONDUCT A SITE VISIT TO DETERMINE FINAL LOCATIONS PRIOR TO START OF CONSTRUCTION. SITE VISIT SHALL BE INCIDENTAL TO THE CONTRACT.
- ASPHALT SPEED CUSHION AND ASPHALT FLAT TOP SPEED HUMP LOCATIONS SHALL NOT OBSTRUCT DRIVEWAYS OR COVER MANHOLES.
- EXISTING ROADWAY STRIPING REPLACEMENT IS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE. REPLACED ROADWAY STRIPING SHALL MATCH METHOD OF EXISTING STRIPING.
- PROPOSED APPROACH STRIPING FOR ASPHALT SPEED CUSHIONS AND FLAT TOP SPEED HUMPS ARE PAID FOR PER M.A.S.S. SECTION 70.10.
- TRIM TREE BRANCHES TO PROVIDE SIGN VISIBILITY OF ALL WARNING SIGNS I.A.W. SECTION 20.05 OF THE SPECIAL PROVISIONS.



**SITE MAP**

**ABBREVIATIONS**

	DETAIL AND SHEET NUMBER FOR DETAIL
AVE	AVENUE
APPX	APPROXIMATE
CIR	CIRCLE
CT	COURT
DR	DRIVE
E	EAST
FT	FEET
HWY	HIGHWAY
I.A.W.	IN ACCORDANCE WITH
IN	INCH
LN	LANE
LP	LOOP
M.A.S.S.	MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, STREETS-DRAINAGE-UTILITIES-PARKS, 2015 AS CURRENTLY AMENDED
MMA	METHYLEMETHACRYLATE
MOA	MUNICIPALITY OF ANCHORAGE
N	NORTH
NO.	NUMBER
NTS	NOT TO SCALE
PL	PLACE
PKWY	PARKWAY
PSL	POSTED SPEED LIMIT
RD	ROAD
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SC	SPEED CUSHION
SH	SPEED HUMP
SHT	SHEET
ST	STREET
STA	STATION
STD DTL	STANDARD DETAIL FOUND IN DIVISION 90, M.A.S.S. 2015
TYP	TYPICAL
W	WEST

**LEGEND**

	EXISTING SIGN
	PROPOSED SIGN
	MAILBOX(S)
	UTILITY POLE
	LUMINAIRE
	EXISTING FIRE HYDRANT
	EXISTING STORM DRAIN MANHOLE
	EXISTING STORM DRAIN FIELD INLET/CBMH
	EXISTING STORM DRAIN CATCH BASIN/CURB INLET
	EXISTING WATER VALVE BOX
	ELECTRIC PEDESTAL
	ELECTRIC JUNCTION BOX
	ELECTRIC METER
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND TELEPHONE LINE
	OVERHEAD TELEPHONE LINE
	EXISTING CURB & GUTTER
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	ASPHALT SPEED CUSHION
	ASPHALT FLAT TOP SPEED HUMP
931	PROPERTY ADDRESS

**DRAWING INDEX**

SHEET NO.	DRAWING
1	TITLE SHEET
2	LEGEND, INDEX, GENERAL NOTES, ABBREVIATIONS, AND SITE MAP
3	DETAILS
4	STREET PLAN - POINTE RESOLUTION DR
5	STREET PLAN - W 100TH AVE
6	STREET PLAN - LOIS DR
7-8	STREET PLAN - APOLLO DR
9-10	SIGN SUMMARY

**PROJECT INFORMATION**

STREET NAME	ASPHALT SPEED CUSHION	ASPHALT FLAT TOP SPEED HUMP	SHEET NUMBER
POINTE RESOLUTION DR	2		4
W 100TH AVE	2		5
LOIS DR		3	6
APOLLO DR	4		7-8

**CALL BEFORE YOU DIG**

THE CONTRACTOR SHALL NOTIFY AREA UTILITY COMPANIES PRIOR TO COMMENCEMENT OF EXCAVATION. THE FOLLOWING IS A PARTIAL LIST:  
**LOCATE CALL CENTER OF ALASKA 811**  
 (INCLUDES ACS, AWWA, CEA, ENG, BUTLER AVIATION/TESORO, GCI CABLE, MLP, TRAFFIC SIGNALS, MOA STORM/STREETS, AND ALASKA FIBER STAR.)  
**STATE STORM/STREET LIGHTS 907-333-2411**  
**MILITARY PETROLEUM LINES 907-862-4112**

**RECORD DRAWING**

1. DATA PROVIDED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
 THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.  
 CONTRACTOR: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_

2. DATA TRANSFERRED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
 COMPANY: \_\_\_\_\_ DATE: \_\_\_\_\_

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.  
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DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

DESIGN	STAKING	ASBUILT	CONTRACTOR	INSPECTOR

PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL

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 DAVID A. DARRINGTON  
 06-119531  
 1/10/23  
 REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

TRAFFIC ENGINEERING DEPARTMENT

22-29 2023 VERTICAL TRAFFIC CALMING

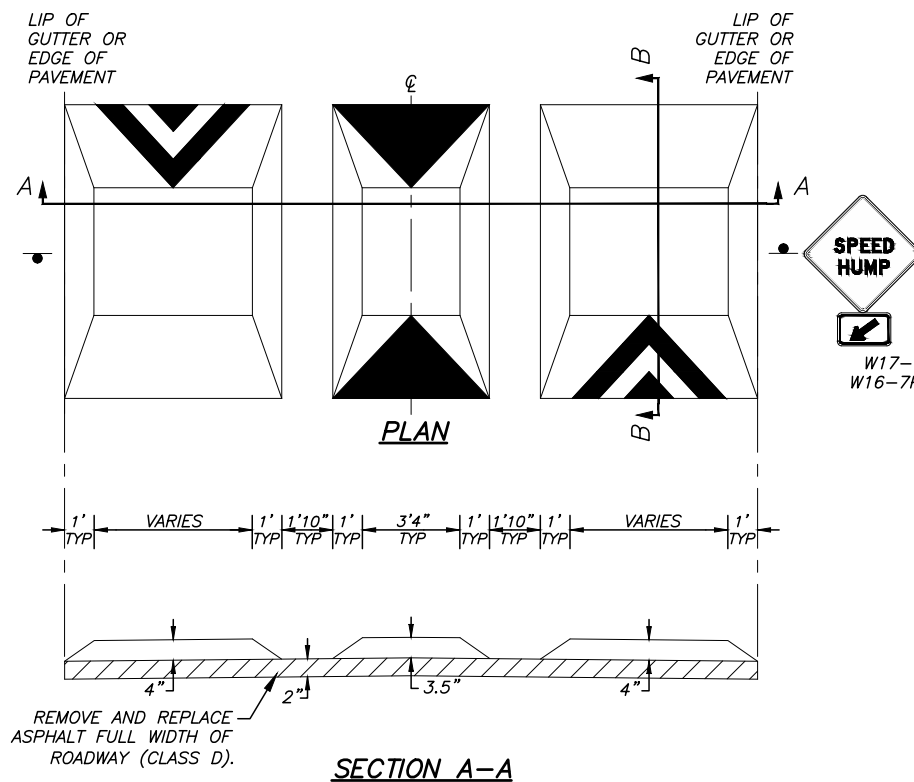
**LEGEND, INDEX, GENERAL NOTES, ABBREVIATIONS, AND SITE MAP**

SCALE	HOR. VER.	GRID	DATE	JAN 2023	STATUS	SHEET	2	of	10
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FILE NO. -

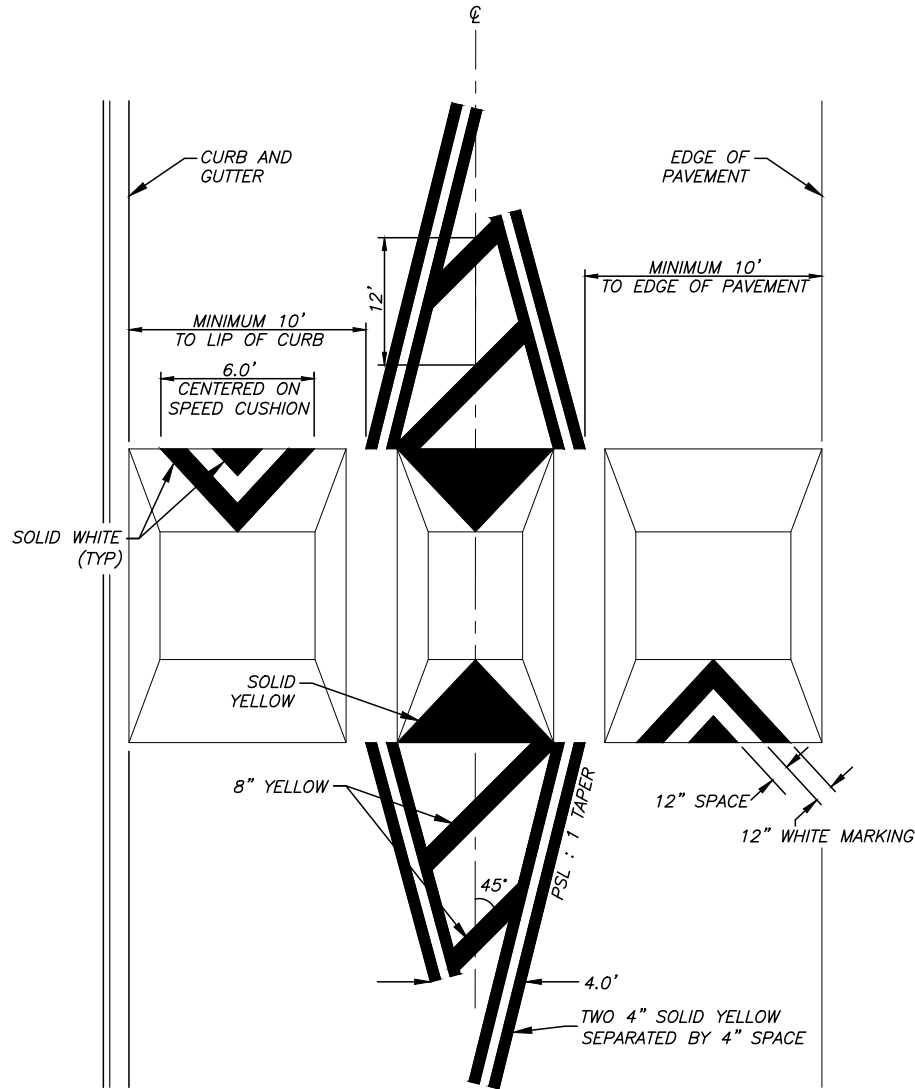
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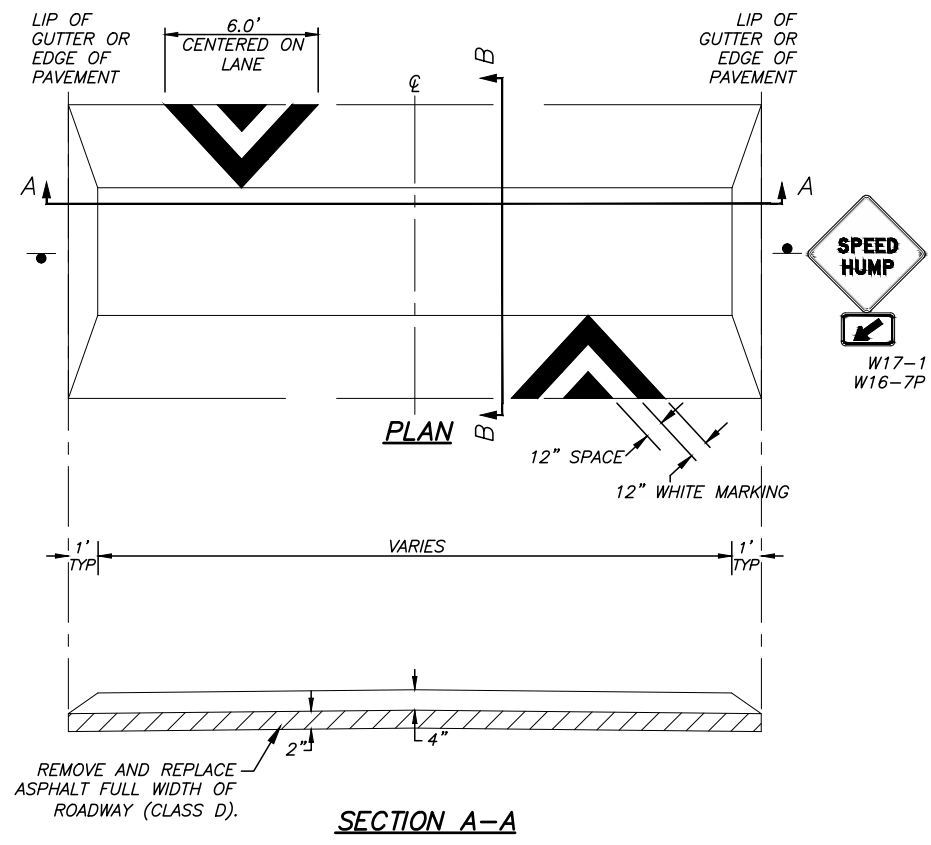
- ASPHALT SPEED CUSHION NOTES:**
1. CONSTRUCT SPEED CUSHIONS AS SHOWN IN SECTION A-A TO ENSURE THAT DRAINAGE IS NOT OBSTRUCTED ALONG THE EDGE OF THE ROADWAY.
  2. ASPHALT THICKNESS SHALL BE WITHIN PLUS OR MINUS 0.25" OF THICKNESS SHOWN.

**1**  
3 ASPHALT SPEED CUSHION LAYOUT  
NTS



- ASPHALT SPEED CUSHION STRIPING NOTES:**
1. ASPHALT SPEED CUSHION STRIPING SHALL BE 90 MIL INLAID MMA. SYMBOLS LOCATED ON THE SPEED CUSHION SHALL BE INCIDENTAL TO THE CONSTRUCTION OF THE ASPHALT SPEED CUSHION AND NO ADDITIONAL PAYMENT SHALL BE MADE.
  2. TAPER LENGTH MAY BE REDUCED WITH APPROVAL FROM THE ENGINEER.

**2**  
3 ASPHALT SPEED CUSHION STRIPING LAYOUT  
NTS



- ASPHALT FLAT TOP SPEED HUMP NOTES:**
1. CONSTRUCT SPEED HUMPS AS SHOWN IN SECTION A-A TO ENSURE THAT DRAINAGE IS NOT OBSTRUCTED ALONG THE EDGE OF THE ROADWAY.
  2. ASPHALT FLAT TOP SPEED HUMP STRIPING SHALL BE 90 MIL INLAID MMA. ASPHALT FLAT TOP SPEED HUMP SYMBOLS SHALL BE INCIDENTAL TO THE CONSTRUCTION OF THE ASPHALT FLAT TOP SPEED HUMP AND NO ADDITIONAL PAYMENT SHALL BE MADE.
  3. ASPHALT THICKNESS SHALL BE WITHIN PLUS OR MINUS 0.25" OF THICKNESS SHOWN.
  4. PLACE ARROW SYMBOLS IN CENTER OF LANE. VERIFY WITH THE ENGINEER PRIOR TO PLACEMENT.

**3**  
3 ASPHALT FLAT TOP SPEED HUMP LAYOUT  
NTS

**RECORD DRAWING**

1. DATA PROVIDED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
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CONTRACTOR: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

2. DATA TRANSFERRED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_ DATE: \_\_\_\_\_

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.  
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DATA	DRAWN BY	CHECKED BY
BASE	---	---
TOPOGRAPHY	---	---
PROFILE	---	---
STORM SEWER	---	---
WATER/SANITARY SEWER	---	---
GAS	---	---
TELEPHONE	---	---
ELECTRIC	---	---
DESIGN	---	---
QUANTITIES	---	---
PRELIMINARY/FINAL	---	---
MUNICIPAL/STATE	---	---

FIELD BOOKS	DESIGN	STAKING	ASBUILT	CONTRACTOR	INSPECTOR

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UNIVERSITY OF ANCHORAGE

TRAFFIC ENGINEERING DEPARTMENT

22-29 2023 VERTICAL TRAFFIC CALMING

**DETAILS**

SCALE HOR. VER. GRID DATE JAN 2023 STATUS SHEET 3 of 10



**TRAFFIC CALMING DEVICE TABLE**

TRAFFIC CALMING DEVICE NO.	DEVICE TYPE	APPX STATION**	APPX ROADWAY WIDTH (FT)	REMARKS
SC-1	ASPHALT SPEED CUSHION	10+88.5	30	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 10+77 TO STA 11+00
SC-2	ASPHALT SPEED CUSHION	15+62.5	30	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 15+51 TO STA 15+74.

\*\*STATIONING IS LOCATED AT CENTER OF THE ASPHALT SPEED CUSHION.

**NOTES**

1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND NOT ALL UTILITIES ARE SHOWN.

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BASE	—	—
TOPOGRAPHY	—	—
PROFILE	—	—
STORM SEWER	—	—
WATER/SANITARY SEWER	—	—
GAS	—	—
TELEPHONE	—	—
ELECTRIC	—	—
DESIGN	—	—
QUANTITIES	—	—
PRELIMINARY/FINAL	—	—
MUNICIPAL/STATE	—	—

DESIGN	BY
FIELD BOOKS	
DESIGN	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

GRAPHIC SCALE: 0 40 80 120

PLAN CHECK CONSTRUCTION RECORD VERTICAL DATUM REVISIONS CONSULTANT SEAL

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 DE-119531  
 1/10/23  
 REGISTERED PROFESSIONAL ENGINEER



TRAFFIC ENGINEERING DEPARTMENT

22-29 2023 VERTICAL TRAFFIC CALMING

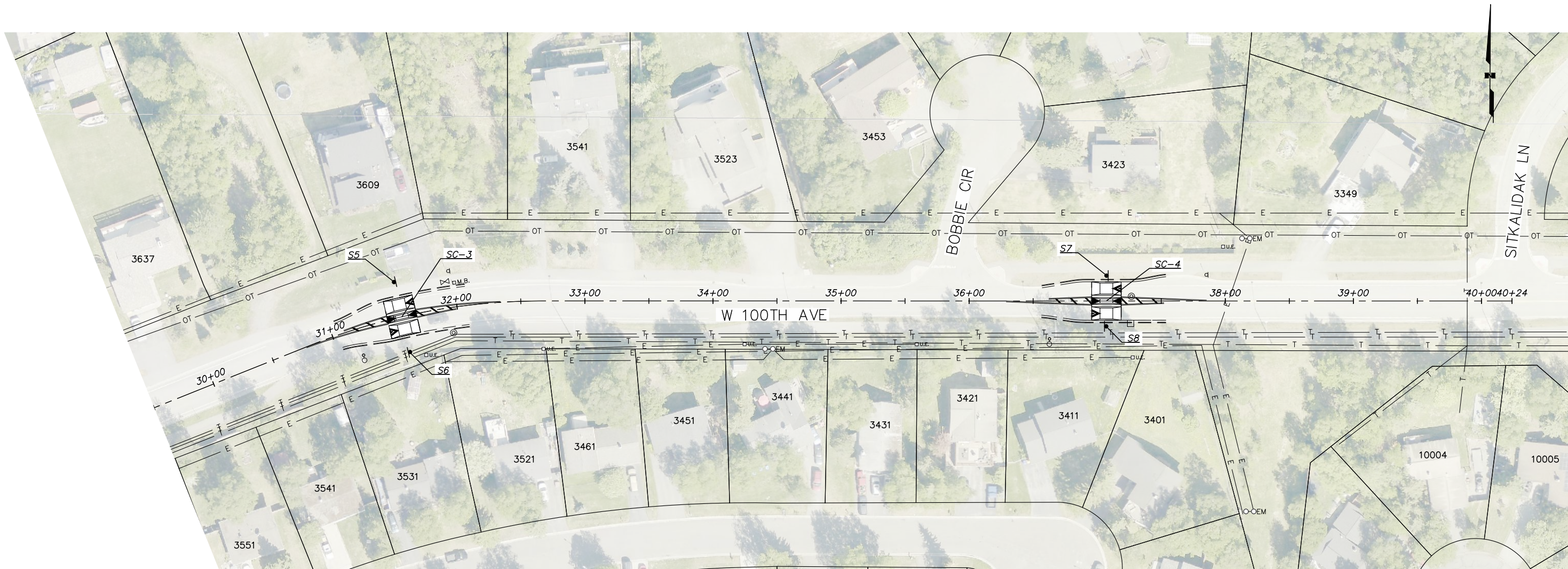
**STREET PLAN**  
**POINTE RESOLUTION DR**

SCALE HOR. 1"=40' VER. N/A GRID SW2525 DATE JAN 2023 STATUS SHEET 4 of 10

FILE NO. —

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TRAFFIC CALMING DEVICE TABLE				
TRAFFIC CALMING DEVICE NO.	DEVICE TYPE	APPX STATION**	APPX ROADWAY WIDTH (FT)	REMARKS
SC-3	ASPHALT SPEED CUSHION	31+56.5	30	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 31+45 TO STA 31+68
SC-4	ASPHALT SPEED CUSHION	37+07.5	30	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 36+96 TO STA 37+19.

\*\*STATIONING IS LOCATED AT CENTER OF THE ASPHALT SPEED CUSHION.

**NOTES**

1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND NOT ALL UTILITIES ARE SHOWN.
2. LOCATE UNDERGROUND UTILITIES BY POTHOLES PRIOR TO INSTALLING SIGN BASES. IF SIGN RELOCATION IS REQUIRED, RECEIVE APPROVAL FROM THE ENGINEER FOR THE NEW LOCATION PRIOR TO INSTALLATION.

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3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.

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TOPOGRAPHY	—	—
PROFILE	—	—
STORM SEWER	—	—
WATER/SANITARY SEWER	—	—
GAS	—	—
TELEPHONE	—	—
ELECTRIC	—	—
DESIGN	—	—
QUANTITIES	—	—
PRELIMINARY/FINAL	—	—
MUNICIPAL/STATE	—	—

DESIGN	BY
DESIGN	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

FIELD BOOKS

GRAPHIC SCALE: 40 0 40 80 120

PLAN CHECK CONSTRUCTION RECORD VERTICAL DATUM REVISIONS CONSULTANT SEAL

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 1/10/23  
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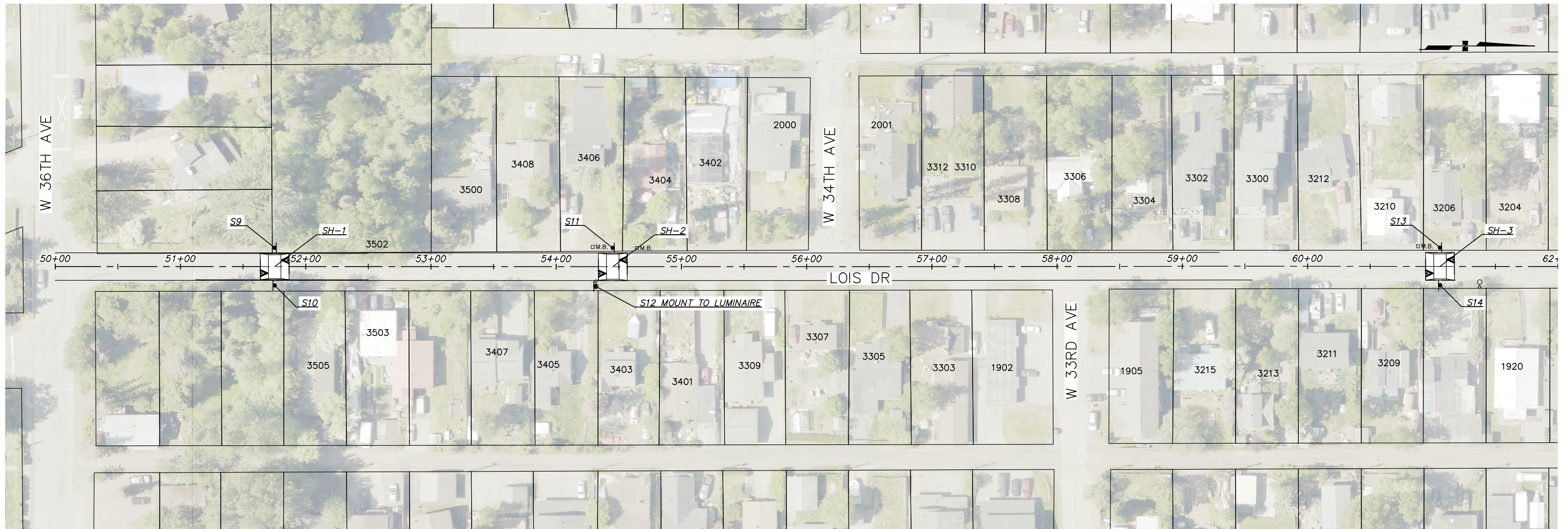
TRAFFIC ENGINEERING DEPARTMENT

22-29 2023 VERTICAL TRAFFIC CALMING

**STREET PLAN  
 W 100TH AVE**

SCALE HOR. 1"=40' VER. N/A GRID SW2526 DATE JAN 2023 STATUS SHEET 5 of 10

FILE NO.-



TRAFFIC CALMING DEVICE TABLE				
TRAFFIC CALMING DEVICE NO.	DEVICE TYPE	APPX STATION**	APPX ROADWAY WIDTH (FT)	REMARKS
SH-1	ASPHALT FLAT TOP SPEED HUMP	51+75.5	22	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 51+64 TO STA 51+87.
SH-2	ASPHALT FLAT TOP SPEED HUMP	54+45.5	22	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 54+34 TO STA 54+57.
SH-3	ASPHALT FLAT TOP SPEED HUMP	61+06.5	22	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 60+95 TO STA 61+18.

\*\*STATIONING IS LOCATED AT CENTER OF THE ASPHALT FLAT TOP SPEED HUMP.

**NOTES**

1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND NOT ALL UTILITIES ARE SHOWN.

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**RECORD DRAWING**

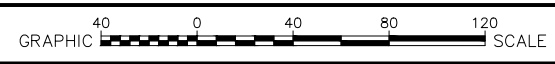
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GAS	—	—
TELEPHONE	—	—
ELECTRIC	—	—
DESIGN	—	—
QUANTITIES	—	—
PRELIMINARY/FINAL	—	—
MUNICIPAL/STATE	—	—

PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL



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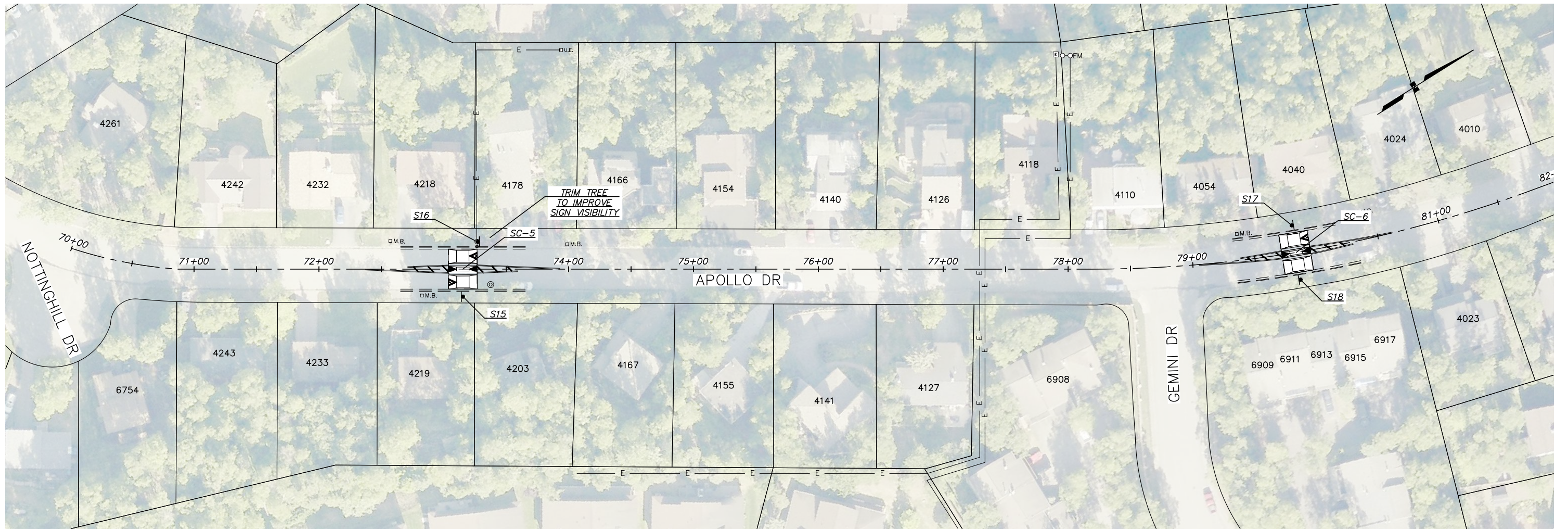
TRAFFIC ENGINEERING DEPARTMENT

22-29 2023 VERTICAL TRAFFIC CALMING

**STREET PLAN  
LOIS DR**

SCALE HOR. 1"=40' VER. N/A GRID SW1628 DATE JAN 2023 STATUS SHEET 6 of 10

FILE NO. —



TRAFFIC CALMING DEVICE TABLE				
TRAFFIC CALMING DEVICE NO.	DEVICE TYPE	APPX STATION**	APPX ROADWAY WIDTH (FT)	REMARKS
SC-5	ASPHALT SPEED CUSHION	73+15.5	34	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 73+04 TO STA 73+27.
SC-6	ASPHALT SPEED CUSHION	79+83.5	34	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 79+72 TO STA 79+95.

\*\*STATIONING IS LOCATED AT CENTER OF THE ASPHALT SPEED CUSHION.

**NOTES**

1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND NOT ALL UTILITIES ARE SHOWN.
2. PRUNING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARD (ANSI) A300, PART 1, "STANDARD PRACTICES PRUNING" AND ANSI Z133.1 "ARBORICULTURAL OPERATIONS SAFETY".

**RECORD DRAWING**

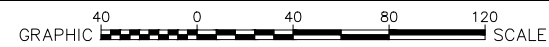
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 CONTRACTOR: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_

2. DATA TRANSFERRED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
 COMPANY: \_\_\_\_\_ DATE: \_\_\_\_\_

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 BY: \_\_\_\_\_

DATA	DRAWN BY	CHECKED BY
BASE	—	—
TOPOGRAPHY	—	—
PROFILE	—	—
STORM SEWER	—	—
WATER/SANITARY SEWER	—	—
GAS	—	—
TELEPHONE	—	—
ELECTRIC	—	—
DESIGN	—	—
QUANTITIES	—	—
PRELIMINARY/FINAL	—	—
MUNICIPAL/STATE	—	—

PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL



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TRAFFIC ENGINEERING DEPARTMENT

22-29 2023 VERTICAL TRAFFIC CALMING

**STREET PLAN  
 APOLLO DR**

SCALE: HOR. 1"=40' VER. N/A  
 GRID: SW1739  
 DATE: JAN 2023 STATUS: \_\_\_\_\_

7 of 10 SHEET

FILE NO.—

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TRAFFIC CALMING DEVICE TABLE				
TRAFFIC CALMING DEVICE NO.	DEVICE TYPE	APPX STATION**	APPX ROADWAY WIDTH (FT)	REMARKS
SC-7	ASPHALT SPEED CUSHION	86+23.5	34	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 86+12 TO STA 86+35.
SC-8	ASPHALT SPEED CUSHION	91+61.5	34	REMOVE & REPLACE 2" OF ASPHALT SURFACING APPROXIMATELY FROM STA 91+50 TO STA 91+73.

\*\*STATIONING IS LOCATED AT CENTER OF THE ASPHALT SPEED CUSHION.

**NOTES**

1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND NOT ALL UTILITIES ARE SHOWN.
2. PRUNING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARD (ANSI) A300, PART 1, "STANDARD PRACTICES PRUNING" AND ANSI Z133.1 "ARBORICULTURAL OPERATIONS SAFETY".

**RECORD DRAWING**

1. DATA PROVIDED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
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DATA	DRAWN BY	CHECKED BY
BASE	—	—
TOPOGRAPHY	—	—
PROFILE	—	—
STORM SEWER	—	—
WATER/SANITARY SEWER	—	—
GAS	—	—
TELEPHONE	—	—
ELECTRIC	—	—
DESIGN	—	—
QUANTITIES	—	—
PRELIMINARY/FINAL	—	—
MUNICIPAL/STATE	—	—

DESIGN	BY
DESIGN	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

FIELD BOOKS

GRAPHIC SCALE: 0 40 80 120

PLAN CHECK CONSTRUCTION RECORD VERTICAL DATUM REVISIONS CONSULTANT SEAL

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TRAFFIC ENGINEERING DEPARTMENT

22-29 2023 VERTICAL TRAFFIC CALMING





















**STREET PLAN**  
**APOLLO DR**













SCALE: HOR. 1"=40' VER. N/A  
 GRID: SW1739  
 DATE: JAN 2023 STATUS: \_\_\_\_\_

8 of 10 SHEET

FILE NO. —

H:\Jobs\21-014 MOA Traffic Eng Term \29-2023 Vertical Traffic Calming\CAD\Drawings\21014\_29\_09-10\_SignSum.dwg, 1:2, 1/9/23 at 15:58 by WPENCE

SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	SIZE (IN x IN)	AREA FT <sup>2</sup>	SIGN FACES	POST SIZE (IN)	THICKNESS (IN)		REMARKS
										FRAMED	UNFRAMED	
4	S1	10+88.5	LT	W17-1		30x30	6.25	N	2.5" PT		0.125	
				W16-7P		12x24	2.00	N			0.125	
4	S2	10+88.5	RT	W17-1		30x30	6.25	S	2.5" PT		0.125	
				W16-7P		12x24	2.00	S			0.125	
4	S3	15+62.5	LT	W17-1		30x30	6.25	NE	2.5" PT		0.125	
				W16-7P		12x24	2.00	NE			0.125	
4	S4	15+62.5	RT	W17-1		30x30	6.25	SW	2.5" PT		0.125	
				W16-7P		12x24	2.00	SW			0.125	
5	S5	31+56.5	LT	W17-1		30x30	6.25	E	2.5" PT		0.125	
				W16-7P		12x24	2.00	E			0.125	
5	S6	31+56.5	RT	W17-1		30x30	6.25	W	2.5" PT		0.125	
				W16-7P		12x24	2.00	W			0.125	
5	S7	37+07.5	LT	W17-1		30x30	6.25	E	2.5" PT		0.125	
				W16-7P		12x24	2.00	E			0.125	
5	S8	37+07.5	RT	W17-1		30x30	6.25	W	2.5" PT		0.125	
				W16-7P		12x24	2.00	W			0.125	
6	S9	51+75.5	LT	W17-1		30x30	6.25	N	2.5" PT		0.125	
				W16-7P		12x24	2.00	N			0.125	
6	S10	51+75.5	RT	W17-1		30x30	6.25	S	2.5" PT		0.125	
				W16-7P		12x24	2.00	S			0.125	

SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	SIZE (IN x IN)	AREA FT <sup>2</sup>	SIGN FACES	POST SIZE (IN)	THICKNESS (IN)		REMARKS
										FRAMED	UNFRAMED	
6	S11	54+45.5	LT	W17-1		30x30	6.25	N	2.5" PT		0.125	
				W16-7P		12x24	2.00	N			0.125	
6	S12	54+31.5	RT	W17-1		30x30	6.25	S				MOUNT ON LUMINARE
				W16-7P		12x24	2.00	S				MOUNT ON LUMINARE
6	S13	61+06.5	LT	W17-1		30x30	6.25	N	2.5" PT		0.125	
				W16-7P		12x24	2.00	N			0.125	
6	S14	61+06.5	RT	W17-1		30x30	6.25	S	2.5" PT		0.125	
				W16-7P		12x24	2.00	S			0.125	
7	S15	73+15.5	RT	W17-1		30x30	6.25	S	2.5" PT		0.125	
				W16-7P		12x24	2.00	S			0.125	
7	S16	73+27.0	LT	W17-1		30x30	6.25	N				MOUNT ON LUMINARE TRIM TREE FOR SIGN VISIBILITY
				W16-7P		12x24	2.00	N				MOUNT ON LUMINARE

**SIGNING NOTES**

1. THE LETTERING FOR NAMES OF STREETS ON STREET NAME SIGNS SHALL BE COMPOSED OF A COMBINATION OF LOWER-CASE LETTERS WITH INITIAL UPPER-CASE LETTERS I.A.W. M.U.T.C.D. SECTION 2D.43.
2. PT = PERFORATED TUBE
3. THE CONTRACTOR SHALL ENSURE THAT 7-FT OF CLEARANCE IS PROVIDED BETWEEN THE BOTTOM OF THE SIGN AND THE SIDEWALK.

**RECORD DRAWING**  
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TOPOGRAPHY	---	---
PROFILE	---	---
STORM SEWER	---	---
WATER/SANITARY SEWER	---	---
GAS	---	---
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ELECTRIC	---	---
DESIGN	---	---
QUANTITIES	---	---
PRELIMINARY/FINAL	---	---
MUNICIPAL/STATE	---	---

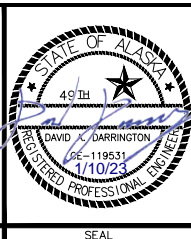
  

DESIGN	BY
DESIGN	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	













  

PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL

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TRAFFIC ENGINEERING DEPARTMENT  
 22-29 2023 VERTICAL TRAFFIC CALMING  
**SIGN SUMMARY**  
 SCALE HOR. 1"=40' VER. N/A  
 GRID DATE JAN 2023 STATUS SHEET 9 of 10  
**FILE NO.-**

SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	SIZE (IN x IN)	AREA FT <sup>2</sup>	SIGN FACES	POST SIZE (IN)	THICKNESS (IN)		REMARKS
										FRAMED	UNFRAMED	
7	S17	79+83.5	LT	W17-1		30x30	6.25	N	2.5" PT		0.125	
				W16-7P		12x24	2.00	N			0.125	
7	S18	79+83.5	RT	W17-1		30x30	6.25	S	2.5" PT		0.125	
				W16-7P		12x24	2.00	S			0.125	
8	S19	86+23.5	LT	W17-1		30x30	6.25	N	2.5" PT		0.125	
				W16-7P		12x24	2.00	N			0.125	
8	S20	86+23.5	RT	W17-1		30x30	6.25	S	2.5" PT		0.125	
				W16-7P		12x24	2.00	S			0.125	
8	S21	91+61.5	LT	W17-1		30x30	6.25	N	2.5" PT		0.125	TRIM TREE FOR SIGN VISIBILITY
				W16-7P		12x24	2.00	N			0.125	
8	S22	91+61.5	RT	W17-1		30x30	6.25	S	2.5" PT		0.125	
				W16-7P		12x24	2.00	S			0.125	

H:\Jobs\21-014 MOA Traffic Eng Term \29-2023 Vertical Traffic Calming\CAD\Drawings\21014\_29\_09-10\_SignSum.dwg, 1:2, 1/9/23 at 15:58 by WPENCE

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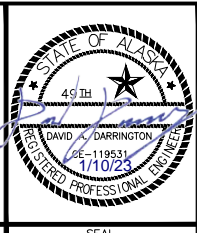
DATA	DRAWN BY	CHECKED BY
BASE	—	—
TOPOGRAPHY	—	—
PROFILE	—	—
STORM SEWER	—	—
WATER/SANITARY SEWER	—	—
GAS	—	—
TELEPHONE	—	—
ELECTRIC	—	—
DESIGN	—	—
QUANTITIES	—	—
PRELIMINARY/FINAL	—	—
MUNICIPAL/STATE	—	—

FIELD BOOKS	DESIGN	STAKING	ASBUILT	CONTRACTOR	INSPECTOR

PLAN CHECK      CONSTRUCTION RECORD      VERTICAL DATUM      REVISIONS

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 22-29      2023 VERTICAL TRAFFIC CALMING

**SIGN SUMMARY**

SCALE: HOR. 1"=40'      GRID      10 of 10  
 VER. N/A      DATE: JAN 2023      STATUS      SHEET

FILE NO. —